Mid-Coyote Creek Environmental Data Compilation Project
Final Report

April 23, 2004

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Mid-Coyote Creek Environmental Data Compilation Project
Final Report

Prepared for
The Santa Clara Valley Water District
To support the Mid-Coyote Creek Capital Improvement Project

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I. Introduction

The Mid-Coyote Creek Environmental Data Compilation Project was undertaken to support the Mid-Coyote Creek Project (Fowler et al. 2003) by compiling existing data for the Mid-Coyote Creek Project study area, identifying data gaps, and recommending actions to address such gaps. As such, this Project is intended to support the initial planning phase of the Mid-Coyote Creek Environmental Impact Report. The Mid-Coyote Creek Project is funded by the Clean, Safe Creeks & Natural Flood Protection Program (Program) and managed by the Capital Program Services Division. The Program provides for multi-objective improvements including: flood protection, riparian and fisheries habitat protection/enhancement, stream restoration, water quality improvement, and increased public access and recreation. Historically, flooding has occurred many times within the Coyote Watershed, therefore, the primary objectives of the Mid-Coyote Creek Project are to enhance the creek's conveyance to protect homes, schools, businesses, and highways from the one-percent or greater flood frequency events and evaluate opportunities to improve fisheries, habitat values, and public access (Mid-Coyote Project Work Plan, Fowler et al., 2003).

The Mid-Coyote Creek Environmental Data Compilation Project (Project) objectives included:

1. Summarize existing data sets and/or reports (provide meta-data) that contain data types identified as relevant by the Project Team[1] to fulfill Natural Flood Protection (NFP) objectives, and analysis of natural resource conditions for use in preparation of an EIR for the Mid-Coyote Creek Project.
2. Evaluate the completeness and quality of these data with respect to relevant data types identified. Specifically, identify data gaps and recommend possible field surveys to address gaps or to supplement data deemed insufficient to support an analysis of key Beneficial Uses and Natural Flood Protection Objectives, and for the analyses needed to prepare the EIR for the project.
3. Document information described in 1 and 2 above in report format.

Data were compiled in the 6.1 mile Mid-Coyote Project area (between Montague Expressway and Interstate 280), from Highway 237 upstream to where Wool Creek Drive trends east towards Coyote Creek (and before it parallels the Creek), as well as on Upper Penitencia Creek from the confluence with Coyote Creek upstream to Dorel Drive, and on Lower Silver Creek from the confluence with Coyote Creek upstream to Lake Cunningham. These areas were designated as Project reaches: Mid-Coyote, Upper Penitencia, and Lower Silver (MC, UP, LS). Figure 1 shows Project area reaches.

At the request of the District Project team, the spatial extent of the Project area was extended to include the portion of the Coyote mainstem upstream to Anderson Dam (designated as Upper Coyote, UC) for the purpose of indicating whether data sources compiled for the original three Mid-Coyote Project reaches also existed in the Upper Coyote reach. Therefore, in this report, four Project area reaches are referred to as Mid-Coyote, Upper Coyote, Upper Penitencia, and Lower Silver (Figure 1).

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[1] Project Team consisted of District staff and consultants from EOA, Inc.

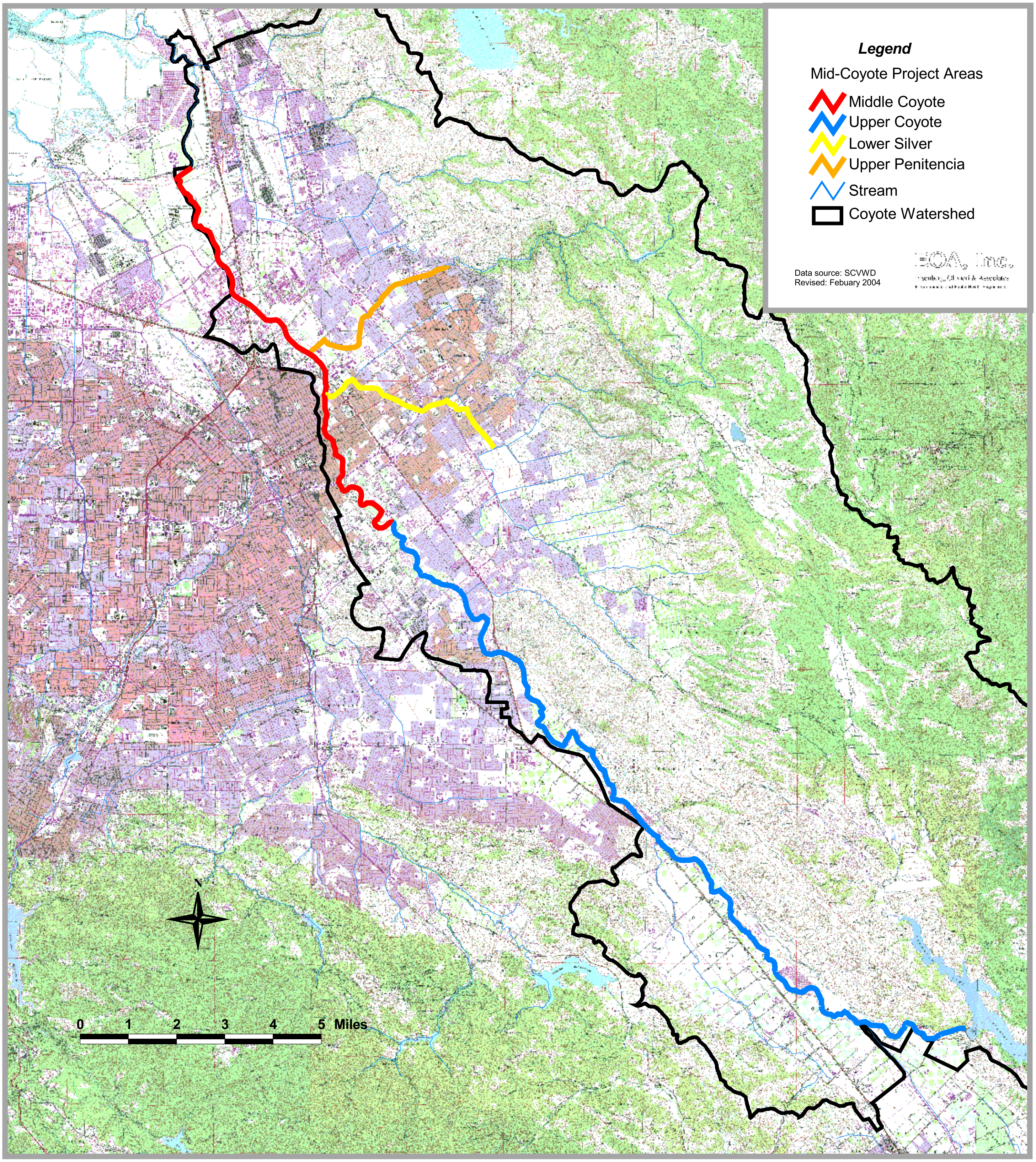

Figure 1. Middle Coyote Project Area and Contributing Drainage Areas, Which Include Upper Reaches Below Anderson Dam, Upper Penitencia and Lower Silver Creek.

II. Approach

The Project Team identified data types that would support the key management objectives:

1) Provide analysis of natural resource conditions as required for EIR preparation as mandated by CEQA;
2) Support alternatives analysis consistent with the Natural Flood Protection Program

Table 1, *Preferred Data Types to support the Mid-Coyote Creek Project*, identifies these data types and shows their relationship to the management objectives for the overall Mid-Coyote Project. This table was developed by reviewing CEQA requirements (SFRWQCB 2002), and recent watershed assessments (SCVURPPP 2003). The Draft Natural Flood Protection Program Guidance was released in January, 2004, therefore NFP objectives were not available to guide the development of the list of data types relevant to this Project, however they were added to the table retrospectively.

The objectives of the Natural Flood Protection Program (NFP) (Duckler and Martin 2004) are to:

1. Provide protection from flood damage
2. Support ecologic functions and processes
3. Integrate physical stream functions and processes
4. Minimize maintenance requirements
5. Integrate within the context of the watershed
6. Protect the quality and availability of water
7. Cooperate with other local agencies to achieve mutually beneficial goals
8. Maximize community benefits beyond flood protection
9. Minimize life-cycle costs

The Project Team prioritized data compilation efforts to focus on natural resource data types, especially those generated by the District. Data types that were considered a low priority for data compilation are identified in Table 1. Data compilation for these data types did not occur due to Project budget and time constraints. Remaining data types were further prioritized for the purpose of data evaluation as either high or medium on the following basis:

- High: those typically based on field data collection data and ascribed within the general data type categories of biological resources, hydro-geomorphology, and water quality
- Medium: other data types listed in Table 1 that were not designated low priority as stated above.

Data Compilation

Data were compiled by implementing several steps to identify data products relevant to the data types listed in Table 1. First the Santa Clara Valley Urban Runoff Pollution Prevention Program (SCVURPPP) Metadata Database (MDDB) (Appendix A) was queried for the initial three project reaches, MC, UP, and LS. This database was chosen because it has been updated more recently[2] (November 18, 2003) than the Santa Clara Basin Watershed Management Initiative's (SCBWMI) MDDB (October 10, 2000). Subsequently, additional relevant District data products were identified and compiled. Lastly, other external agencies/organizations were contacted and relevant data were identified and compiled.

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[2] The SCVURPPP MDDB was updated with information from the Stream Studies Inventories; the SCBWMI MDDB was not.

A key caveat: because this Project was initially focused on the Mid-Coyote Project area, data compilation efforts were prioritized to identify data located in the corresponding Project reaches: MC, UP, and LS reaches. In many instances, data products identified for these reaches also covered the UC reach, however, this Project did not include a comprehensive data compilation effort for the UC reach. Data sets focused on natural resources that are mobile by nature, such as sediment, flow, and biological assemblages, were also compiled for stream reaches located upstream of the original three study reaches. In addition, the *Draft Interim Report of the Assessment of the Lower Silver - Thompson Creek Subwatershed* was also included due to its relevance to multiple Hydro-geomorphic data types in multiple Project reaches. Notwithstanding this exception, a result of focusing data compilation efforts for the Project reaches, was that data sets collected for Alum Rock Park, County Parks, North Coyote Valley, and by the Valley Transportation Authority were neither compiled nor evaluated as part of this Project.

Compiled data products as well as the projects through which they were generated were summarized in brief bibliographic formats using the data fields available in the SCVURPPP MDDB (Appendices B and C). These summary fields included project title, description, purpose, timeframe, and contact information, as well as product title, respective project name, data description, sampling location, frequency, time period, protocols, and product format. Three copies of each of these data products (electronic format where available otherwise hard copy) were provided to the District, except for products stored in the SCBWMI Palo Alto Repository, which can be accessed directly on an as-needed basis. A product-index was also provided for all data products provided to the District (Appendix D). In addition, a copy of the Microsoft Access SCVURPPP MDDB containing the metadata for all projects and products included in Appendices B and C, was provided to the District. Data products evaluated in Tables 2 and 3 can be cross-referenced to the more detailed product summaries in Appendix C using the product identification codes listed in column 4 of the respective Tables. From Appendix C, data products may be cross-referenced to the Project summaries listed alphabetically in Appendix B.

Data Gap Identification

The first step towards identifying data gaps for high and medium priority data types was to evaluate the quality of individual data products identified for each data type. This was done by applying the following four data quality criteria:

1) Temporal: data sampling date(s)
2) Spatial Extent: location of data sampling within the Project study area[3]
3) Spatial Density: spatial density of data sampling
4) Methods: sampling methodologies used and their level of documentation

Table 2, *Data Quality Evaluation for Products identified for High Priority Data Types*, contains results of applying all four of the data quality criteria to the products identified for data types designated as high priority. Results can be cross-referenced to the more detailed product summaries in Appendix C using the product identification codes listed in column 4. From Appendix C, results may be cross-referenced to the Project summaries listed alphabetically in Appendix B.

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[3] Subsequent to the period of data compilation for the Project, the District Project team requested that the spatial extent of the data gap evaluation be extended to include the remaining section of the Coyote mainstem upstream to Anderson Dam. This area was designated "Upper Coyote". Data compiled for the original three project reaches (MC, UP, and LS) were evaluated for the UC reach, but due to the timing of adding this reach, this effort did not represent a comprehensive evaluation of available data.

Table 3, *Data Quality Evaluation for Products identified for Medium Priority Data Types*, contains results of applying two of the four data quality criteria to the products identified for data types designated as medium priority. These data products were evaluated using only the temporal and spatial extent criteria because they were not based on field-sampling, and thus the spatial density and methods criteria were not applicable. Results can be cross-referenced to the more detailed product summaries in Appendix C using the product identification codes listed in column 4. From Appendix C, results may be cross-referenced to the Project summaries listed alphabetically in Appendix B.

Temporal and spatial extent criteria were applied as shown below, with a higher score indicating higher data quality. Project reaches are designated as MC = Mid-Coyote, UC = Upper Coyote, LS = Lower Silver, UP = Upper Penitencia. The temporal criteria were designed to score data reflecting recent conditions most highly. If future project needs require that data be evaluated in terms of their ability to reflect reference conditions, then the temporal criteria would need to be revised to reflect that intent.

Score	Temporal – Biological Resources /Water Quality	Temporal – Hydrology/ Geomorphology	Spatial Extent
0	No data available	No data available	No data available
1	Greater than 15 years old	Pre-dam	Not available for MC, but avail for one or more of UC, LS, UP
2	5 to 15 years old	Post- dam prior to urban development	Available for MC only
3	Less than 5 years old	Post-urban development	Available for MC and one or more of UC, LS, or UP

The spatial density and methods criteria were evaluated by applying best professional judgment. Thus, spatial density was evaluated in terms of whether sampling was continuous, done at relatively close intervals, or more distant and/or intermittent intervals. The rationale for each score was provided in a brief narrative format in Table 2. Methods were evaluated in terms of whether they were well-documented, whether data resolution was sufficient, and whether the data had been analyzed to provide insight into natural resource conditions.

For data products that represent compilations of multiple sources of data (e.g., CNDDB and CNPS), it was not feasible to evaluate the source data incorporated into those products. In these cases the temporal and spatial criteria were evaluated respectively using the date that the product was produced, and the relative locations of existing records. The spatial density and methods criteria were not applied, reflected by "N/A" in Table 2. One product was incomplete (the Upper Penitencia Creek Riparian Map) and therefore, was only assessed using the temporal and spatial criteria.

A total score was calculated for each data product by summing the scores of the individual data quality criteria, resulting in a scoring range of 0 – 12 for high priority data types (Table 2), and a range of 0 to 6 for medium priority data types (since only temporal and spatial criteria were evaluated for medium priority data) (Table 3). It is important to note that each criterion was weighted equally, however some criteria may have greater importance in terms of evaluation data quality (e.g., methods) and could be weighted more heavily, resulting in a different total score (see Results section for discussion of ranking of data types).

Data quality scores were subsequently tabulated and summarized in the following tables:

Table 4, *Summary of data compiled for High Priority Data Types*, displays the data quality scores summarized for each High priority data type.

Table 5, *Summary of data compiled for Medium Priority Data Types*, displays the data quality scores for each Medium priority data type.

Due to the Project focus on the Mid-Coyote reach, the data quality summaries were limited to this reach except for those high-priority data types that could influence downstream resources (e.g., salmonid spawning and rearing, fish community assemblages and populations, barriers to fish migration, watershed management and assessment, channel deposition and erosion areas, and sediment load, yield, volume, and removal), in which case the summaries included data identified from all four Project reaches. The focus on the MC reach also made the spatial extent criterion redundant, thus it was not included in the cumulative data quality score for high priority data types, reducing the total score range from 12 to 9. Consequently, high priority data types were ranked as Low (1-3), Medium (4-6) or High (7-9) (Table 4). Medium priority data types were ranked as Low (1-2), Medium (3-4), and High (5-6). These ranks summarize the relative quality of data available for each data type and provide an indication of where data gaps exist.

Data gaps were formally identified and evaluated in Table 6:

Table 6, *Data Gap Evaluation for High Priority Data Types*, identifies and evaluates the data gaps, given the current management objectives for the Mid-Coyote Project. This table indicates the overall rank for each data type, the category of data gap, a brief description of the data gaps, and recommendations to address them.

Data Gap Evaluation

Data gaps were evaluated only for high priority data types because the nature of the medium priority data types (e.g., not based on field sampling) did not lend themselves to recommendations for additional surveys to address data gaps. The geographic scope of the high priority data gap evaluation was limited to the Mid-Coyote reach at the direction of the District Project Team. Exceptions were made for high-priority data types (listed above, and indicated in Tables 4 and 6 in bold font), which due to their mobile nature could influence downstream resources. For these data types, evaluations included data identified in all four Project reaches. Data gap evaluations for several geomorphic data types were also influenced by the decision to include a data product that extended upstream of the Project area on Lower Silver Creek *(*e.g., the Draft Interim Report of the Assessment of the Lower Silver - Thompson Creek Subwatershed by Geosyntec Consultants, 2003).

Data gaps were evaluated for high priority data types (Table 6) by specifying data quality shortfalls in terms of the lack of current data (temporal criterion), low spatial density (spatial density criterion), lack of methods documentation (methods criterion), lack of data analysis (methods criterion), and low data resolution, e.g., fineness of detail or perhaps indicating a specific aspect of the data type that should be addressed in future sampling (methods criterion).

III. Results

The greatest number of data products for High priority data types were identified for the Biological resources category, under the aquatic habitat (25) and fisheries (30) subheadings. Fewer data products were identified for the vegetation (12) subheading, and even fewer (2) were identified for the wildlife subheading. Twenty-seven data products were identified for the Hydrology/Geomorphology resources category and 22 for the Water Quality category.

Only one complete data gap was identified for High priority data types; no data products existed for ‘bankfull discharge and channel width’, a key Hydrology/Geomorphology data type that contributes to an understanding of channel structure and stability.

Different types of data gaps were identified and evaluated for 90% of the 40 high priority data types. In many cases, such gaps did not indicate a complete lack of information, but rather, a lack of specific aspects of information that would be necessary to complete the kind of analysis that is required to support NFP Objectives, EIR development, and assessment of key Beneficial Uses.

A total of 65 data gaps were identified in the following categories for the 40 high priority data types:

- Lack of current data: 14
- Low spatial density: 11
- Lack of methods documentation: 12
- Lack of analysis: 11
- Low data resolution: 17

The ranks assigned to data types (as they appear in Tables 4-6) can be misleading because even data types assigned a ‘High’ rank typically exhibited at least one of the data gap types listed above. This seeming discrepancy between rank and presence of data gaps partly results from the decision to equally weight the data quality evaluation criteria. Were the methods criteria weighted more heavily than the temporal criterion for example, the ranks might better correlate with the presence of data gaps. The Project bias towards compiling recent data sets in order to identify data most useful to the Project also contributed to this discrepancy: recent data products received the highest scores for the temporal criteria, and as a result, most data sets fell within the range of a High rank even though other aspects of their data quality were not similarly high. Therefore, it may be useful to revise the methods used to implement the data quality criteria prior to subsequent applications.

A number of the data products identified utilized a similar core of data sets, therefore, each data product does not necessarily represent a unique data set. Stated another way, the relationship between data product identified and data set does not always correlate directly. This point has relevance for understanding how implementation of recommendations for addressing data gaps may have a broad positive impact. For example, implementing recommendations to document sampling methods of a particular existing study can greatly improve the quality of many data types. Conversely, as some of the core data sets age, this will have a broad negative impact on the data quality score of many data types. The following summarizes the evaluation of the data gaps identified for high priority data types (described in detail in Table 6).

Lack of Current Data

- 14 such data gaps identified; 22% of all data gaps identified; 35% of data types exhibited this category of data gap.

The majority of these data gaps either indicate that existing data are out of date or that they have never been collected. Therefore, recommendations made in Table 6 typically indicate a need to address this type of data gap by additional field sampling. However, other approaches to addressing this category of data gap include identification of a surrogate existing data source (see shaded riverine aquatic cover), and a suggestion that the resolution of identified data may not be appropriate for this Project's objectives, therefore, the data gap may not need to be addressed (see visual physical habitat survey).

Low Spatial Density

- 11 such data gaps identified; 17% of all data gaps identified; 28% of data types exhibited this category of data gap.

Occurrences of this data gap often coincide with the above Lack of Current Data gap because if data have never been collected, then it goes without saying that spatial density is low. In some cases, however, this data gap reflects a judgment that too few data points of a respective data type have been collected, and that additional data points should be sampled. Therefore, recommendations made in Table 6 typically indicate a need to address this type of data gap by additional field sampling.

Lack of Methods Documentation

- 12 such data gaps identified; 19% of all data gaps identified; 33% of data types exhibited this category of data gap.

A large proportion of these data gaps pertained to the need for better documentation of the methods used to sample the data. For example, the District's Fisheries and Aquatic Habitat Collaborative Effort (FAHCE) collected fine resolution information for numerous data types across much of the Project area, however, the methods implemented are largely undocumented. Recommendations to address such data gaps by better documenting the sampling methods used in the FAHCE project would greatly reduce the number of data gaps identified. Similar suggestions are made for other projects that have generated data products for which documentation is incomplete or missing, see Table 6 for a complete list of such data gaps and recommendations to address them.

Lack of Analysis

- 11 such data gaps identified; 17% of all data gaps identified; 28% of data types exhibited this category of data gap.

This data gap often indicated that the field data had not been interpreted in terms of what they tell us about the condition of the habitat and the stream functions. As an example, the FAHCE study collected a wealth of information that was analyzed to address a set of objectives that do not completely address the objectives of this Project, therefore, further analysis of many of the data types collected by FAHCE would greatly reduce the number of data gaps identified. Similar suggestions are made for other projects that have generated data products, see Table 6 for a complete list of such data gaps and recommendations to address them.

Low Data Resolution

- 17 such data gaps identified; 26% of all data gaps identified; 43% of data types exhibited this category of data gap.

The majority of these data gaps indicated the need to increase the level of detail collected for respective data types. Specific recommendations to address such data gaps are listed in Table 6.

IV. Summary

Through this Project a substantial volume of existing data has been compiled, summarized, and evaluated in terms of its ability to support analyses of key Beneficial uses, natural flood protection objectives, and the preparation of an EIR for the Mid Coyote Creek Project.

The method to identify and evaluate data gaps implemented for this Project was a pilot designed prior to the development of an assessment framework. Therefore, the District may find that as a framework for assessing the Mid Coyote Creek Project evolves, its data needs may differ from those outlined here in Table 1, and the methods used here to evaluate data quality may require revision.

Table 1. Preferred Data Types to support the Mid-Coyote Creek Project. Also listed are designated priority for data compilation and evaluation, associated Designated Beneficial Uses, and Natural Flood Protection Program objectives specific to each data type (listed by number, see list above for description; note that since objectives 5 and 9 are relevant to every data type, they are not specifically listed in column 2).

Table 1. Preferred Data Types to support the Mid-Coyote Creek Project

Relevant Designated Beneficial Use	Relevant NFP Objectives	General Data Type	Detailed Data Type	Design-ated Priority
REC-2	8	Aesthetics	Natural Resources (e.g., riparian greenbelt, open space area visually accessible to public)	Med
			Cultural Resources (e.g., historic buildings)	Med
			List of Scenic Vistas	Low
	8	Agriculture	Location and Type of Agriculture Based on Land Use	Med
			Areas zoned for Agricultural Use	Med
	6	Air Quality	Topography and Climate	Med
			Federal and State Ambient Air Quality Standards	Low
			Air Quality Monitoring Data from California Air Resources Board	Low
COLD, WARM, RARE, SPWN	2	Biological Resources - Aquatic Habitat	Salmonid Spawning and/or Rearing Quantity/Quality	High
			Aquatic Habitat Type (i.e., pool, riffle run)	High
			Instream Fish Cover (e.g., percent large woody debris)	High
			Shaded Riverine Aquatic Cover (SRA Cover)	High
			Substrate Condition (e.g., percent fines, embeddedness)	High
			Visual Physical Habitat Assessment	High
			Watershed Assessment	High
COLD, WARM, RARE, MIGR, SPWN	2	Biological Resources - Fisheries	Salmonid Fish Population (distribution, abundance, age class, genetics)	High
			Historical Fish Community Assemblage (distribution, abundance)	High
			Fish Community Assemblage (distribution, abundance, age class)	High
			Benthic Macroinvertebrate Community Assemblage	High
			Fish Barriers (distribution, type)	High
RARE, WILD	2	Biological Resources -	Riparian Vegetation Community	High

Table 1. Preferred Data Types to support the Mid-Coyote Creek Project

Relevant Designated Beneficial Use	Relevant NFP Objectives	General Data Type	Detailed Data Type	Design-ated Priority
		Vegetation	Wetland Delineation	High
			Canopy Cover	High
			Riparian Buffer Width and Contiguity	High
RARE, WILD	2	Biological Resources - Wildlife	Riparian and Wetland Wildlife Species	High
			Special Status Species	High
			Invasive Species (distribution, abundance)	High
	8	Cultural Resources	Historical, Archeological, Paleontological Resource Inventories (e.g., Native American burial sites, shell mounds)	Low
	3	Geology/Soils	Geology	Med
			Landslides	Med
			Soil Type	Med
	6	Hazards & Hazardous Materials	Federal, State and Local Regulations on Proper Use, Disposal and Cleanup of Hazardous Materials	Low
			Location, Constituents and Status of Hazardous Waste Sites	Med
			Emergency Response and Evacuation Plans	Low
REC-1 (Potential), MUN	3,4,6	Hydrology & Geomorphology	Streamflow (velocity, discharge, flow frequency)	High
			Dam/Diversion Release	High
			Water Import/Export Precipitation	High High
			Flood Areas (historical, existing and predicted)	High
			Depth to First Groundwater	High
			Groundwater Recharge Area	High
			Channel Cross-section/ Longitudinal Profile	High
			Channel Bed and Bank Material	High
			Channel Modification Type and Location	High
			Channel Deposition and Erosion Areas Sediment Removal Locations and Volume	High High
			Sediment Load and Yield	High
			Bankfull Discharge and Widths	High
			Stream Classification	High
	6	Water Quality	General Water Quality (e.g., water temperature, pH, dissolved oxygen, conductivity, turbidity, salinity, hardness)	High
			Water Chemistry (e.g., metals, nutrients, pesticides, PCBs)	High

Table 1. Preferred Data Types to support the Mid-Coyote Creek Project				
Relevant Designated Beneficial Use	**Relevant NFP Objectives**	**General Data Type**	**Detailed Data Type**	**Design-ated Priority**
			Sediment chemistry (e.g., metals, pesticides, PCBs)	High
			Pathogens	High
			Acute and Chronic Toxicity	High
	4,7	Land Use	City of San Jose General Plans	Med
			Santa Clara County Parks Master Plans	Med
			Existing and Projected Land Use	Med
			Watershed/Catchment Imperviousness	Med
	3,6	Mineral Resources	Existing Mineral Deposits (State Mining and Geology Board)	Low
			Historic/Existing Mines (e.g., California Mines Database)	Med
	7	Noise	Local Noise Ordinances	Low
			Noise Sensitive Land Uses	Low
	7	Population/ Housing	Location of Residences and Commercial Properties Affected in Project Area (parcel data)	Med
			Locations of Homeless Encampments	Med
			Population Census Data	Med
	7	Public Services	Locations of Fire, Police, Schools and Other Public Facilities.	Med
REC-1 (potential), REC-2	8	Recreational Resources	Location of Parks and Constructed trails. Assess Recreational Opportunities (e.g., boating, fishing and nature viewing).	Med
	7	Transportation/ Traffic	Existing Roads and Bridges	Med
			Location of Congested Traffic Areas	Low
			Location of Parking Areas	Low
			Emergency Access and Evacuation Routes	Low
	7	Utilities/ Service Systems	Locations of Relevant Public and Private Utilities (e.g., sewer and water lines, stormdrains, gas and electrical lines, telephone and cable TV).	Low, but storm drain data compiled
			Construction Plans for all Utilities Affected in Project Area	Low
	5,7	Regulatory	Flood Control Planning/Regulatory Compliance	Med

Table 2. Evaluation of the quality of data products identified for high priority data types in the four Mid-Coyote Project reaches: MC (Mid-Coyote Project), UC (Upper Coyote, up to Anderson Dam), UP (Upper Penitencia), and LS (Lower Silver). A total score of 0 indicates a complete data gap. Total scores < 12 indicate different types of data gaps that are evaluated in Table 5. Data product summaries in Appendix C can be cross-referenced by Product ID code listed in column 4.

Table 2. Data Quality Evaluation for Products identified for High Priority Data Types. Results can be cross-referenced to detailed product summaries in Appendix C using the product identification codes listed in column 4. From Appendix C, results may be cross-referenced to the Project summaries listed alphabetically in Appendix B.

General Data Type	**Data Description**	**Product Title**	**Product ID**	**Area**	**Data Quality**					**Rationale for Density and Method Scores**
					Temporal (0-3)	**Spatial (0-3)**	**Density (0-3)**	**Methods (0-3)**	**Total Score**	
Biological Resources – Aquatic Habitat	aquatic habitat type	FAHCE Salmonid Habitat Survey Database	1494	UP, MC, UC	3	3	3	1	10	Continuous survey for all 3 watershed areas; methods and results not reported.
	aquatic habitat type	Results of the Habitat Survey on Lower Coyote Creek	1542	MC, UC	2	3	3	2	10	Continuous survey for MC only; methods reported (USFS protocol) with limited report on the results
	aquatic habitat type	Stormwater Environmental Indicators Demonstration Project Final Report	16	MC, UC	3	3	1	3	10	Surveyed over 100 m sections; 5 sites in MC; 10 in UC; methods (CDFG protocol) and results reported
	benthic macroinvertebrate community assemblage	Bentic Macroinvertebrate Population Analysis for 1998/1999 on Coyote Creek, Santa Clara County, CA	1540	MC, UC	3	3	3	2	11	Multiple sampling sites: 8 sites (24 samples) in MC; 7 in UC; EPA protocol; limited data analysis
	benthic macroinvertebrate community assemblage	Benthic Macroinvertebrate Survey on Coyote Creek	1539	MC, UC	2	3	3	2	10	Multiple sampling sites: 8 sites in MC; 7 in UC; EPA protocol; limited data analysis
	benthic macroinvertebrate community assemblage	SCVURPPP FY 02-03 Watershed Monitoring and Assessment Summary Report	1505	UP	3	1	3	3	10	High density of sites: 6 sites (18 samples) in UP; data analysis (BMI metrics); CDFG protocol
	benthic macroinvertebrate community assemblage	2000 Benthic Macroinvertebrate Population Analysis: Coyote Creek	1493	MC, UC, UP	3	3	1	2	9	Few sampling sites: 2 sites in MC; 3 in UP; 4 in UC; EPA protocol; limited data analysis
	benthic macroinvertebrate community assemblage	Stormwater Environmental Indicators Demonstration Project Final Report	16	MC, UC	3	3	1	2	9	Most sites in upper reaches: 1 site in MC; 6 sites in UC; EPA protocol; some data analysis
	benthic macroinvertebrate community assemblage	The Distribution and Abundance of Lotic Macroinvertebrates during Spring 1997 in Seven Streams of the Santa Clara Valley area, California	1200	MC, UC, UP	2	3	1	2	8	High density of sites overall; only 2 sites in MC; 7 sites in UC; 4 sites in UP; USGS protocol; limited data analysis

Table 2. Data Quality Evaluation for Products identified for High Priority Data Types. Results can be cross-referenced to detailed product summaries in Appendix C using the product identification codes listed in column 4. From Appendix C, results may be cross-referenced to the Project summaries listed alphabetically in Appendix B.

General Data Type	**Data Description**	**Product Title**	**Product ID**	**Area**	**Data Quality**					**Rationale for Density and Method Scores**
					Temporal (0-3)	**Spatial (0-3)**	**Density (0-3)**	**Methods (0-3)**	**Total Score**	
Biological Resources – Aquatic Habitat	instream fish cover	FAHCE Salmonid Habitat Survey Database	1494	UP, MC, UC	3	3	3	2	11	Continuous survey for all 3 watershed areas; methods not reported; limited analysis; results reported in other documents.
	instream fish cover	Stormwater Environmental Indicators Demonstration Project Final Report	16	MC, UC	3	3	1	3	10	Surveyed over 100 m sections; 5 sites in MC; 10 in UC; methods (CDFG protocol); results and some analysis reported
	instream fish cover	Analysis of the proposed Coyote Creek solution option	1547	MC, UC	3	3	2	1	9	Single graph showing % habitat cover from FAHCE habitat survey conducted on Coyote Creek mainstem; low resolution of spatial coverage
	instream fish cover	Results of the Habitat Survey on Lower Coyote Creek	1542	MC, UC	2	3	3	1	9	Continuous survey; methods reported (data collected is low resolution); results not reported
	instream fish cover	Results of Year 2000 Fisheries Habitat Monitoring, Coyote Creek, San Jose, CA	1543	UC	3	1	1	2	7	Measured at 4 transects; methods reported (data collected is low resolution); results are reported including field data forms
	salmonid spawning and/or rearing quality/quantity	FAHCE Salmonid Habitat Survey Database	1494	MC, UC, UP	3	3	3	1	10	Continuous survey for all 3 watershed areas; data collected: total spawning gravel area, embeddedness and ranking of salmonid rearing habitat; methods not reported; results reported in other documents; limited analysis of results
	salmonid spawning and/or rearing quality/quantity	Summary and conclusion FAHCE TAC evaluation of the effects of Santa Clara Valley Water District facilities and operations on factors limiting habitat availability and quality for steelhead and chinook salmon.	1495	MC, UC, UP	3	3	2	2	10	Multiple data sources; maps showing temp suitability for salmonid life stages; maps showing spawning surveys and redd counts (1995-1999); limited analysis of habitat survey results
	salmonid spawning and/or rearing quality/quantity	Analysis of the proposed Coyote Creek solution option	1547	MC, UC	3	3	2	1	9	Single graph showing % total area spawning gravel from FAHCE habitat survey for Coyote Creek mainstem

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Biological Resources – Aquatic Habitat	salmonid spawning and/or rearing quantity/quality	Results of the Habitat Survey on Lower Coyote Creek	1542	MC, UC	2	3	3	1	9	Continuous survey; documented the location and extent of spawning gravel documented in fall season; condition of gravel not documented.
	salmonid spawning and/or rearing quantity/quality	Summer dams fisheries study summary of field work, November 1990-March 1992	1353	MC, UC, UP	2	3	1	1	7	Monthly (Nov – March) winter spawning survey at selected locations (i.e., migration barriers and areas with potential spawning habitat)
	salmonid spawning and/or rearing quantity/quality	Summer dams fisheries study summary of field work, November 1992-October 1993	1612	MC, UC, UP	2	3	1	1	7	Winter spawning survey at selected locations conducted only in March
	salmonid spawning and/or rearing quantity/quality	Lower Coyote Creek Flood Control Project Reaches 1-3: Annual Report of Mitigation and Monitoring Programs 1994-1995	1533	MC	2	2	1	1	6	Monthly (Oct – April) spawning surveys at installed gravel locations near Montague
	salmonid spawning and/or rearing quantity/quality	Lower Coyote Creek Flood Control Project Reaches 1-3: Report of Mitigation and Monitoring Programs 1996-1998	1534	MC	2	2	1	1	6	Monthly (Oct – April) spawning surveys at installed gravel locations near Montague
	shaded riverine aquatic cover	FAHCE Salmonid Habitat Survey Database	1494	MC, UC, UP	3	3	3	1	10	Data collected in FAHCE (% canopy cover; % bank vegetation and % instream cover) could be used as surrogates for SRA cover).
	shaded riverine aquatic cover	Lower Coyote Creek Flood Control Project Reaches 1-3: Report of Mitigation and Monitoring Programs 1996-1998	1534	MC	2	2	1	1	6	Aquatic shade was estimated by measuring tree survival rates at 4 sites below Montague; shade model reported as not effective
	substrate condition	FAHCE Salmonid Habitat Survey Database	1494	MC, UC, UP	3	3	3	1	10	Continuous survey for all 3 watershed areas; visual estimate of substrate condition (% fines and % embeddedness); methods not reported; results reported in other documents.
	substrate condition	Stormwater Environmental Indicators Demonstration Project Final Report	16	MC, UC	3	3	1	2	9	Surveyed over 100 m sections; 5 sites in MC; 10 in UC; visual

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										estimate of substrate condition; results reported
	substrate condition	Analysis of the proposed Coyote Creek solution option	1547	MC, UC	3	3	2	1	9	Two graphs showing % total fines and % embeddedness from FAHCE habitat survey for Coyote Creek; low spatial resolution.
	substrate condition	Results of Year 2000 Fisheries Habitat Monitoring, Coyote Creek, San Jose, CA	1543	UC	3	1	1	1	5	Measured at 4 transects; visual estimates of substrate cover; results are reported with raw data sheets
	visual physical habitat survey	The Relationship Between Habitat and Biology in Freshwater Ecosystems	1544	MC, UC, UP	2	3	2	1	8	High density of sites overall; only 2 sites in MC; 7 sites in UC; 4 sites in UP; Low data resolution (subjective scoring of 20 parameters)
	visual physical habitat survey	SCVURPPP FY 02-03 Watershed Monitoring and Assessment Summary Report	1505	UP	3	1	2	1	7	Only 6 sites in UP; Low data resolution (subjective scoring of 20 parameters)
Biological Resources – Fisheries	fish community assemblage	Draft Coyote Flow Augmentation Pilot Project Phase 1 Fisheries Monitoring	1541	MC, UC	2	3	3	3	11	Fish survey in 100 m sections; 8 sites in MC; 7 sites in UC; 3-pass electrofishing; population estimate, species composition reported
	fish community assemblage	Stormwater Environmental Indicators Demonstration Project Final Report	16	MC, UC	3	3	2	2	10	Surveyed 100 m sections during 3 seasons; 5 sites in MC; 10 sites in UC; 1-pass electrofishing; data analysis using biological metrics; data collected during artificial stream flow conditions.
Biological Resources – Fisheries	fish community assemblage	SCVWD Creeks - "crks704"	1595	MC, UC, UP, LS	2	3	2	1	8	Distribution of fish communities for streams in SC Basin; developed in 2000 based on BPJ; methods and references not reported; low spatial resolution
	fish community assemblage	Bay Area Stream Fishes (BASF) Version 1.0	1568	MC, UC	2	3	1	2	8	Fish survey in 30m sections; 4 sites in MC; 7 sites in UC; 1-pass electrofishing; nets; species composition and lengths

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	fish community assemblage	Vertebrate Location Report for Reach 3 of Lower Silver Creek	10	LS	3	1	1	1	6	Electrofished 500 m section one time for project mitigation, species composition, abundance
	fish community assemblage	Fish Relocation Operations Summary Report	1555	LS	3	1	1	1	6	Electrofished 650 m section one time for project mitigation, species composition, abundance
	fish community assemblage	Summary and conclusion FAHCE TAC evaluation of the effects of Santa Clara Valley Water District facilities and operations on factors limiting habitat availability and quality for steelhead and chinook salmon.	1495	MC, UC	2	2	1	1	6	Multiple data sources that are not current and low resolution; fish composition data from migrant trap at Hwy 237 (MC) ; some electrofishing data from dryback zones and spreader dams (UC)
	fish community assemblage	Summer dams fisheries study summary of field work, November 1992 – October 1993	1612	UC, UP	2	1	1	1	5	Electrofishing above/below ponds (4 sites on UP; 2 sites on UC); seine fishing of ponds (4 sites in UC)
	fish community assemblage	Summer dams fisheries study summary of field work, November 1990-March 1992	1353	UC, UP	2	1	1	1	5	Electrofishing above/below ponds (5 sites on UP); seine pond (1 site on UC)
	fish barriers	Inventory of fish passage impediments in Coyote Creek Watershed	1496	MC, UC, UP	3	3	3	2	11	Compiled comprehensive list of barriers and info on the location, type and impact to migration; impacts of barriers not assessed for native warm fishes.
	fish barriers	Summary and conclusion FAHCE TAC evaluation of the effects of Santa Clara Valley Water District facilities and operations on factors limiting habitat availability and quality for steelhead and chinook salmon.	1495	MC, UC, UP	3	3	3	2	11	Map and table showing location and description of fish barriers in Coyote; limited data analysis.
	fish barriers	Results of the Habitat Survey on Lower Coyote Creek	1542	MC, UC	3	3	3	1	10	Continuous survey; location and type of barriers reported; no analysis of barriers
	fish barriers	Summer dams fisheries study summary of field work, November 1992-October 1993	1612	MC, UC, UP	2	3	1	1	7	Visual survey at selected locations during winter season; limited results reported

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Biological Resources – Fisheries	historical fish community assemblage	Aquatic Resource Characterization of Western Mt. Hamilton Stream Fisheries Final Report	1499	MC, UC, UP	3	3	3	3	12	Compilation of records for native and non-native fish presence/absence from 1898 to 1999.
	historical fish community assemblage	Historical Distribution and Current Status of Steelhead (*Oncorhynchus mykiss*), Coho Salmon (*O. kisutch*), and Chinook Salmon (*O. tshawytscha*) in Streams of the San Francisco Bay Estuary, California	1567	MC, UC, UP, LS	3	3	3	2	11	Compilation of records for only salmonid fish presence/absence up to 2000
	invasive species	Distribution, Ecology and Potential Impacts of the Chinese Mitten Crab (*Eriocheir sinensis*) in San Francisco Bay	42	MC, UP	2	3	3	2	10	Visual survey and traps used to determine crab distribution; 4 sites in MC; 4 in UC; 4 in UP;
	invasive species	The Distribution and Abundance of the Chinese Mitten Crab (*Eriocheir sinensis*) in Santa Clara County, CA	1546	MC, UP	2	3	2	2	9	Visual survey and traps used to determine crab distribution; 4 sites in MC; 4 in UC; 4 in UP
	invasive species	Aquatic Resource Characterization of Western Mt. Hamilton Stream Fisheries Final Report	1499	MC, UC, UP	2	3	2	1	8	Compilation of records fish presence/absence (incl non-native) from 1898 to 1999; no analysis of impacts on native fishes.
	salmonid fish population	Stormwater Environmental Indicators Demonstration Project Final Report	16	MC, UC	3	3	1	2	9	Surveyed 100 m sections during 3 seasons; 5 sites in MC; 10 sites in UC; rainbow trout captured at 3 sites in MC; length and weight data in database
	salmonid fish population	Historical Distribution and Current Status of Steelhead (*Oncorhynchus mykiss*), Coho Salmon (*O. kisutch*), and Chinook Salmon (*O. tshawytscha*) in Streams of the San Francisco Bay Estuary, California	1567	MC, UC, UP, LS	2	3	2	1	8	Compilation of records for salmonid fish presence/absence for studies up to year 2000. Sampling locations, number and lengths of fish reported.; limited data analysis; some recommended management actions
	salmonid fish population	Summary and conclusion FAHCE TAC evaluation of the effects of Santa Clara Valley Water District facilities and operations on factors limiting	1495	MC, UC, UP	2	3	1	2	8	Number and length frequency of salmonid fish captured from migrant trap (1996-1999); spreader dam surveys (1992-

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		habitat availability and quality for steelhead and chinook salmon.								1994); analysis mostly on flow and temperature as limiting factors for salmonids
	salmonid fish population	Provenance analysis of Chinook Salmon (Oncorhynchus tshawytscha) in the Santa Clara Valley Watershed	41	MC, UC, UP	2	3	1	1	7	Genetic analysis, using mitochondrial DNA, of Chinook salmon captured in Coyote between 1994 and 2001.
	salmonid fish population	Lower Coyote Creek Flood Control Project Reaches 1-3: Report of Mitigation and Monitoring Programs 1996-1998	1534	MC	2	2	1	2	7	Downstream smolt emigrant trapping at Montague from April-June; assessment of impacts from Standish Dam
Biological Resources – Fisheries	watershed assessment	Assessment of Stream Ecosystem Functions for the Coyote Creek Watershed	1497	MC, UC, UP	3	3	3	2	11	Analysis of existing data sources; developed biological IBI for fish and BMI; assessed hydro-geomorphic condition and provided potential management actions
	watershed assessment	Aquatic Resource Characterization of Western Mt. Hamilton Stream Fisheries Final Report	1499	MC, UC, UP	2	3	2	1	8	Assess condition of fish assemblages and habitat based on best professional judgment using existing data
	watershed assessment	Watershed Management Plan, Volume 2, Watershed Assessment Report	1599	UP	2	1	3	2	8	Assess attainment of Beneficial Uses (incl COLD) using key indicators from existing data; ID data gaps; provided no management recommendations
	watershed management	Solution Option for Stevens Creek, Coyote Creek and Guadalupe River	1550	MC, UC, UP	2	3	1	2	8	Proposed actions to address factors limiting salmonid habitat quality and quantity; actions are mostly focused on improving flow, temperature and fish passage in UC
	watershed management	Preliminary assessment of fisheries and habitat benefits associated with resource agencies/NGO's conceptual response to SCVWD	1548	MC, UC, UP	2	3	1	2	8	Assessment of SCVWD proposed actions to improve fisheries and habitat conditions; prioritizes actions and list additional management actions mostly in UC

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	watershed management	Fisheries and Aquatic Habitat Collaborative Effort Summary Report	1551	MC, UC, UP	2	3	1	1	7	Brief summary of results on the limiting factors analysis for salmonid fishes; fish habitat management plan; list of management actions previously implemented and ID potential future actions to benefit fisheries;
	watershed management	Coyote Watershed Stream Stewardship Plan Final Report	54	MC, UC, UP	2	3	1	1	7	List of candidate projects for improving and restoring watershed health using 3 criteria: flood protection; environment and habitat; and community participation and recreation
Biological Resources – Vegetation	canopy cover	FAHCE Salmonid Habitat Survey Database	1494	MC, UC, UP	3	3	3	2	11	Continuous survey for all 3 watershed areas; visual estimate of canopy cover; methods not reported; results reported in other document
	canopy cover	Stormwater Environmental Indicators Demonstration Project Final Report	16	MC, UC	3	3	1	3	10	Measurements using densiometer at 5 sites in MC; 10 sites in UC
Biological Resources – Vegetation	canopy cover	Analysis of the proposed Coyote Creek solution option	1547	MC, UC	3	3	2	1	9	Single chart showing % canopy cover collected from FAHCE survey in Coyote Creek mainstem; low resolution of data
	canopy cover	The Impact of Recycled Water on Water Quality in Coyote Creek San Jose, California in 2001	1489	MC, UC, UP, LS	3	3	1	2	9	Measurements using densiometer at only 3 sites in MC.
	invasive species	Distribution of invasive plant species for Coyote, San Francisquito and Stevens Creek Watersheds	1520	MC, UC	3	3	3	1	10	Distribution of *arundo* mapped by volunteers along Coyote mainstem; no documentation of method, results and analysis not reported.
	riparian buffer width and contiguity	San Jose Creek Vegetation Buffer - "hrgcity"	1569	MC, UC, UP, LS	1	3	3	1	8	Vegetation data originates from 1984 and 1990 aerial photos that were mapped in 1992 and digitized in 1996.

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	riparian vegetation community	Riparian Restoration Action Plan - Final Draft	1572	MC, UC	2	3	3	1	9	Map showing prioritization of riparian restoration areas using 7 GIS-based factors
	riparian vegetation community	San Jose Creek Vegetation Buffer - "hrgcity"	1569	MC, UC, UP, LS	1	3	3	1	8	Vegetation community data is relatively general; no information on vegetation structure/age classes or biodiversity
	riparian vegetation community	Lower Coyote Creek Flood Control Project Reaches 1-3: Report of Mitigation and Monitoring Programs 1996-1998	1534	MC	2	2	1	2	7	Plant composition, survival, vigor measured at 6 sites below Montague
	riparian vegetation community	Upper Penitencia Creek Riparian Vegetation Map	1584	UP	3	1	NA	NA	NA	Unknown; product incomplete
	special status species	California Native Plant Society's Electronic Index	1108	MC, UC, UP, LS	3	3	NA	NA	NA	Updated Statewide database; records listed by topo quad; 21 plant species confirmed current occurrences in quads for MC project area; exact locations (i.e. riparian community) were not assessed; data quality also not assessed
	wetland delineation	Wetland Delineations in San Francisco Bay - "ecoatlas"	1585	MC	2	2	1	3	8	Location and type of riparian, tidal and estuary wetland areas; riparian vegetation coverage extends up to Muni Golf Course; methods well documented
	wetland delineation	National Wetlands Inventory - "nwi"	1618	MC	2	2	1	3	8	Location and type of riparian, tidal and estuary wetland areas; riparian vegetation coverage extends up to Muni Golf Course; methods are documented
Biological Resources – Wildlife	riparian and wetland wildlife species	Coyote Creek Flood Control Project Reaches 1,2 & 3; Report of Mitigation and Monitoring Program 2001	1534	MC	3	2	1	2	8	Amphibian, reptile and small mammal monitoring at 6 sites below Montague
	riparian and wetland wildlife species	Memoranda Summarizing SCVWD Biological Survey Results	1586	LS	3	1	1	2	7	Two surveys conducted in 2002 at two project sites in the creek

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	special status species	Memoranda Summarizing SCVWD Red-legged Frog Surveys	1616	UP	2	1	2	2	7	Seven surveys conducted from 1997 to 2001 at various project sites in the creek
	special status species	Memoranda Summarizing SCVWD Burrowing Owl Surveys	1617	UP	3	1	1	2	7	Two surveys conducted in 2002 at two project sites in the creek
	special status species	California Natural Diversity Data Base	1111	MC, UC, UP, LS	3	3	NA	NA	NA	Updated Statewide database; database access was not available to obtain information on type, number and location of species occurrences
Hydrology/ Geomorph	bankfull discharge and width	Not Available	NA	NA	0	0	0	0	0	No existing data sources.
	channel bed and/or bank material	FAHCE Salmonid Habitat Survey Database	1494	MC, UC, UP	3	3	3	1	10	Continuous survey for all 3 watershed areas; visual estimate of substrate cover;; methods and results were not reported.
	channel bed and/or bank material	Upper Penitencia Creek Reconnaissance Level Sediment Assessment: Existing Conditions Summary	1563	UP	3	1	3	3	10	Bulk samples of surface sediment and substrate taken in 5 different reaches
	channel bed and/or bank material	The Impact of Recycled Water on Water Quality in Coyote Creek San Jose, California in 2001	1489	MC, UC, UP, LS	3	3	1	2	9	Visually estimated at only 3 sites in MC.
	channel bed and/or bank material	Draft Interim Report - Assessment of Lower Silver - Thompson Creek Subwatershed	1503	LS	3	0	0	3	6	Bed material sampled (pebble count) at 37 cross-sections; bulk samples for subset; data collected in Thompson/Yerba Buena (outside LS)
	channel cross-section/ longitudinal profile	HEC RAS and HEC2 Data	1596	MC, UC, UP, LS	2	3	3	2	10	Cross-sections at regular intervals for most of MC, parts of UC and all areas of UP/LS; date of X-sect not known; no methods information.
	channel cross-section/ longitudinal profile	Results of Year 2000 Fisheries Habitat Monitoring, Coyote Creek, San Jose	1543	UC	3	1	1	3	8	13 cross-sections taken within 1.3 mile reach; results reported including field data forms
	channel cross-section/	Upper Penitencia Creek	1565	UP	3	1	2	1	7	Bridge scour calculated using

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	longitudinal profile	Reconnaissance Level Sediment Assessment: Bridge Scour Analysis								HEC-RAS.
Hydrology/ Geomorph	channel cross-section/ longitudinal profile	Draft Interim Report - Assessment of Lower Silver - Thompson Creek Subwatershed	1503	LS	3	0	0	3	6	37 cross-sections collected in Thompson/Yerba Buena (outside LS)
	channel deposition and erosion areas	Upper Penitencia Creek Reconnaissance Level Sediment Assessment: Existing Conditions Summary	1563	UP	3	1	3	3	10	Stream reconnaissance as part of sediment budget assessment
	channel deposition and erosion areas	Draft Interim Report - Assessment of Lower Silver - Thompson Creek Subwatershed	1503	LS	3	0	0	2	5	Stream reconnaissance conducted in Thompson/Yerba Buena (outside LS)
	channel modification type and location	SCVWD Creeks - "crks704"	1595	MC, UC, UP, LS	2	3	3	2	10	20 channel types classified for streams in SC Basin; frequency of update and data accuracy is unknown
	channel modification type and location	Riparian Restoration Action Plan - Final Draft	1572	MC, UC, UP, LS	2	3	3	1	9	Map showing 5 classifications of channel types; high data uncertainty
	dam/diversion releases	Analysis of the proposed Coyote Creek solution option	1547	UC	3	1	1	1	5	Hydrologic model used to calculate frequency of winter migration events based on dam operations; actual dam released not reported
	depth to first groundwater	Depth to First Groundwater - "dp1stwtr"	1593	MC, UC, UP, LS	3	3	3	0	9	Depth to first groundwater data; no methods reported.
	historical and predicted flood area	Stormwater Environmental Indicators Demonstration Project Final Report	16	MC, UC, UP	3	3	3	2	11	Maps and charts showing historical flood areas and annual peak flows
	historical and predicted flood area	SCVWD Flooding - "flood"	1591	MC, UC, UP, LS	3	3	3	2	11	FEMA flood areas (1% flood area). Source and scale of basemap reported; frequency of update unknown.
	historical and predicted flood area	Historical Flooding - "histfld"	1592	MC, UC, UP, LS	3	3	3	1	10	GIS coverage showing the flood area, depth for floods occurring from 1978 to 1998. Sources and scales of basemaps varied; frequency of update unknown.

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	flood prone area	FAHCE Salmonid Habitat Survey Database	1494	MC, UC, UP	3	3	3	1	11	Continuous survey; presence/absence of flood prone area was ID for both sides of bank; definition and extent of flood prone area (i.e., flood frequency) was not ID; methods not reported
	precipitation	Rainfall data	1619	MC, UC, UP, LS	3	3	3	3	12	Realtime data of precipitation at various locations in the Santa Clara Basin
Hydrology/ Geomorph	precipitation	Mean Annual Precipitation - "rainfall"	1570	MC, UC, UP, LS	3	3	3	2	11	Mean annual rainfall isopleths for entire Basin; methods reported; data is intended for planning purposes, not site specific data
	sediment load and yield	Upper Penitencia Creek Reconnaissance Level Sediment Assessment: Existing Conditions Summary	1563	UP	3	1	3	2	9	Magnitude-frequency analysis was used to calculate sediment budget for five reaches based on 26 years of flow data
	sediment load and yield	Upper Penitencia Creek Reconnaissance Level Sediment Assessment: Project Conditions Evaluation	1564	UP	3	1	3	2	9	Sediment transport analysis conducted for 5 reaches for range of project alternatives
	sediment load and yield	Draft Interim Report - Assessment of Lower Silver - Thompson Creek Subwatershed	1507	LS	3	0	0	3	6	Sediment transport was measured at six sites in Thompson/Yerba Buena
	sediment removal locations and volume	Stream Maintenance Program History of Sediment Removal Sites - “sedimenthist_99”	1618	UP, LS	3	1	2	1	7	Locations, volume and dates of planned sediment removal sites; no methods reported, low data resolution
	sediment removal locations and volume	Stream Maintenance Program 2001 Sediment Removal Sites - "smp2001sedremoval"	1603	UP, LS	3	1	2	1	7	Locations of planned sediment removal sites; no volume information; some methods reported; low data resolution

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					Temporal (0-3)	Spatial (0-3)	Density (0-3)	Methods (0-3)	Total Score	
	sediment removal locations and volume	Draft Self Monitoring Report for the San Francisco Bay Region Multi-Year Stream Maintenance Program 2002 Sediment Removal Projects	1537	LS	3	1	1	2	7	Volume of sediment removed at two project sites; low data resolution
	sediment removal locations and volume	Self-Monitoring Report for the 2000 Sediment Removal Project	14	LS	3	1	1	2	7	Volume of sediment removed at one project site; low data resolution
	stream classification	Assessment of Stream Ecosystem Functions for the Coyote Creek Watershed	1497	MC, UC, UP	3	3	3	2	11	Stream classification based on hydrologic and geomorphic factors; some field verification; low resolution of geomorphic data
	stream classification	FAHCE Salmonid Habitat Survey Database	1494	MC, UC, UP	3	3	3	1	10	Level 1 Rosgen stream classification; some field verification; low resolution of geomorphic data
	stream classification	Stormwater Environmental Indicators Demonstration Project Final Report	16	MC, UC	3	3	2	1	9	Geomorphic class primarily based on GIS data layers; no field verification and low resolution of geomorphic data
Hydrology/ Geomorph	stream classification	Watershed Management Plan, Volume 2, Watershed Assessment Report	1599	UC	3	1	3	1	8	Stream classification based on three GIS based factors
	streamflow	USGS Gage Data	1615	MC, UC, UP	3	3	3	3	12	Continuous measurements; 2 stations in MC: Hwy 237 and Coyote; one in UP: Nobel; and 2 in UC: Edenvale and Anderson; limited data in lower urbanized areas of watershed
	streamflow	Analysis of the proposed Coyote Creek solution option	1547	MC, UC	3	3	2	2	10	Stream flow analyses in context of salmonid life stages (Edenvale gage)
	streamflow	The Impact of Recycled Water on Water Quality in Coyote Creek San Jose, California in 2001	1489	MC, UC, UP, LS	3	3	1	1	8	Flow measured (pygmy meter) at only 3 sites in MC.
	streamflow	Results of Year 2000 Fisheries Habitat Monitoring, Coyote Creek, San Jose	1543	UC	3	1	2	2	8	Flow measured (Marsh-McBirney 2000) at 12 sites one time only (Oct 2000)

Table 2. Data Quality Evaluation for Products identified for High Priority Data Types. Results can be cross-referenced to detailed product summaries in Appendix C using the product identification codes listed in column 4. From Appendix C, results may be cross-referenced to the Project summaries listed alphabetically in Appendix B.

General Data Type	**Data Description**	**Product Title**	**Product ID**	**Area**	**Data Quality**					**Rationale for Density and Method Scores**
					Temporal (0-3)	**Spatial (0-3)**	**Density (0-3)**	**Methods (0-3)**	**Total Score**	
	streamflow	Summary and conclusion FAHCE TAC evaluation of the effects of Santa Clara Valley Water District facilities and operations on factors limiting habitat availability and quality for steelhead and chinook salmon.	1495	UC	3	1	2	2	8	Graphs showing stream flow frequency, mean daily flow taken at gages in UC
	streamflow	Draft Interim Report - Assessment of Lower Silver - Thompson Creek Subwatershed	1507	LS	3	0	0	2	5	Stream flow gage height measured every 15 min at 4 sites during 2002/2003 winter season.
Water Quality	general water quality	Final Water Quality Monitoring Report for May - November 2000	31	MC, UC, UP, LS	3	3	3	2	11	Monthly measurements of temp, DO, pH, conduct, turbidity using probe at 7 sites in MC, 2 sites cont. measurements
	general water quality	Final Water Quality Monitoring Report for July - October 1999	32	MC, UC, UP, LS	3	3	3	2	11	Monthly measurements of temp, DO, pH, conduct, turbidity, using probe, at 7 sites in MC, 2 sites cont. measurements
	general water quality	The Impact of Recycled Water on Water Quality in Coyote Creek San Jose, California in 2001	1489	MC, UC, UP, LS	3	3	2	2	10	Monthly measurements of temp, DO, pH, conduct, turbidity, using probe, at 3 sites in MC
	general water quality	Temperature Water Quality Data from SCVWD	1213	MC, UC, UP	3	3	2	2	10	Continuous water temperature monitoring from 1998-1999; 8 (stations) in MC; 32 in UC and 5 in UP
	general water quality	Analysis of the proposed Coyote Creek solution option	1547	MC, UC	3	3	2	2	10	Daily water temp graphs at several locations along Coyote taken in 2000.
Water Quality	general water quality	Stormwater Environmental Indicators Demonstration Project Final Report	16	MC, UC	3	3	1	3	10	Continuous measurements for 3 mos. (4 parameters); 1 site in MC; 3 sites in UC
	general water quality	FAHCE Salmonid Habitat Survey Database	1494	MC, UC, UP	3	3	2	1	9	Water temps taken at various intervals using probe
	general water quality	Summary and conclusion FAHCE TAC evaluation of the effects of Santa Clara Valley Water District facilities and operations on factors limiting habitat availability and quality for steelhead and chinook salmon.	1495	MC, UC, UP	3	3	2	1	9	Maps showing water temperature suitability for salmonids at various life stages

Table 2. Data Quality Evaluation for Products identified for High Priority Data Types. Results can be cross-referenced to detailed product summaries in Appendix C using the product identification codes listed in column 4. From Appendix C, results may be cross-referenced to the Project summaries listed alphabetically in Appendix B.

General Data Type	**Data Description**	**Product Title**	**Product ID**	**Area**	**Data Quality**					**Rationale for Density and Method Scores**
					Temporal (0-3)	**Spatial (0-3)**	**Density (0-3)**	**Methods (0-3)**	**Total Score**	
	general water quality	SCVURPPP FY 02-03 Watershed Monitoring and Assessment Summary Report	1505	UP, LS	3	1	2	2	8	Five WQ parameters measured using probes; 9 sites in UP; 3 sites in LS
	general water quality	Draft Self Monitoring Report for the San Francisco Bay Region Multi-Year Stream Maintenance Program 2002 Sediment Removal Projects	1537	LS	3	1	1	2	7	Four WQ parameters measured with probes above and below 2 project locations
	general water quality	Self-Monitoring Report for the 2000 Sediment Removal Project	14	LS	3	1	1	2	7	Four WQ parameters measured with probes above and below project location
	general water quality	Results of Year 2000 Fisheries Habitat Monitoring, Coyote Creek, San Jose	1543	UC	3	1	1	1	6	Water temp and conductivity taken at 4 sites using probes.
	general water quality	Summer dams fisheries study summary of field work, November 1992-October 1993	1612	UP, UC	2	1	1	1	5	Temp and DO measured monthly (April – Sept); 3 sites in UC; 3 sites in UP
	general water quality	Summer dams fisheries study summary of field work, November 1990-March 1992	1353	UP, UC	2	1	1	1	5	Temp and DO measured bimonthly (1 site in UC)
	pathogens	Final Water Quality Monitoring Report for July - October 1999	32	MC, UC, UP, LS	3	3	2	2	10	Monthly grab samples taken in summer season analyzed for 5 bacterial indicator; 5 sites in MC
	pathogens	Final Water Quality Monitoring Report for May - November 2000	31	MC, UC, UP, LS	3	3	2	2	10	Monthly grab samples taken in summer season analyzed for 5 bacterial indicator; 5 sites in MC
	pathogens	The Impact of Recycled Water on Water Quality in Coyote Creek San Jose, California in 2001	1489	MC, UC, UP, LS	3	3	2	2	10	Monthly grab samples taken in summer season analyzed for 5 bacterial indicator; 5 sites in MC
	pathogens	SCVURPPP FY 02-03 Watershed Monitoring and Assessment Summary Report	1505	UP, LS	3	1	1	2	7	Grab samples taken once during 3 season time periods; 3 sites in UP; 3 sites in LS
Water Quality	sediment chemistry	Stormwater Environmental Indicators Demonstration Project Final Report	16	MC, UC	3	3	1	2	9	Measured 6 trace metals for two events; sampled 2 sites in MC; 5 sites in UC
	sediment chemistry	2000 Sediment Removal Project - Analytical Data for Sediment Samples	1566	LS	3	1	1	2	7	Sediment analyzed for metals and organics; sampled at one project site

Table 2. Data Quality Evaluation for Products identified for High Priority Data Types. Results can be cross-referenced to detailed product summaries in Appendix C using the product identification codes listed in column 4. From Appendix C, results may be cross-referenced to the Project summaries listed alphabetically in Appendix B.

General Data Type	**Data Description**	**Product Title**	**Product ID**	**Area**	**Data Quality**					**Rationale for Density and Method Scores**
					Temporal (0-3)	**Spatial (0-3)**	**Density (0-3)**	**Methods (0-3)**	**Total Score**	
	sediment chemistry	2002 Sediment Removal Project - Analytical Data for Sediment Samples	1538	LS	3	1	1	2	7	Sediment analyzed for metals and organics; sampled at two project sites
	sediment chemistry	SCVURPPP FY 02-03 Watershed Monitoring and Assessment Summary Report	1505	UP, LS	3	1	1	2	7	Sediment analyzed for metals and pesticides; 1 sites in UP; 1 site in LS
	sediment chemistry	Joint Stormwater Agency Project to Study Urban Sources of Mercury and PCBs	15	MC	3	2	0	2	7	Sediment collected in stormdrains, analyzed for two parameters; no creek samples
	sediment chemistry	Joint Stormwater Agency Project to Study Urban Sources of Mercury, PCBs and Organochlorine Pesticides	1553	MC	3	2	0	2	7	Sediment collected in stormdrains, analyzed for three parameters; no creek samples
	sediment chemistry	Case Study Investigating Elevated Levels of PCBs in Storm Drain Sediments in San Jose, California	1554	MC	3	2	0	1	6	Sediment analyzed for PCBs in stormdrain that drains near Kelley Park
	sediment chemistry	Year Two Case Study Investigating Elevated Levels of PCBs in Storm Drain Sediments in San Jose, California	1602	MC	3	2	0	1	6	Sediment analyzed for PCBs in stormdrain that drains near Kelley Park
	toxicity bioassays	Final Water Quality Monitoring Report for July - October 1999	32	MC, UC	3	3	1	2	9	Acute toxicity tests on only 2 species for 2 events; 1 site in MC
	toxicity bioassays	Final Water Quality Monitoring Report for May - November 2000	31	MC, UC	3	3	1	1	8	Chronic toxicity tests on only 1 species for 1 event; 1 site in MC
	toxicity bioassays	SCVURPPP FY 02-03 Watershed Monitoring and Assessment Summary Report	1505	UP, LS	3	1	1	3	8	Chronic and acute toxicity tests for 3 species during two sampling events; 1 site on UP and 1 site on LS
	water chemistry	Final Water Quality Monitoring Report for May - November 2000	31	MC, UC, UP, LS	3	3	3	2	11	Monthly grab samples analyzed for metals, nutrients, pesticides and other organic compounds; 5 sites in MC
	water chemistry	Final Water Quality Monitoring Report for July - October 1999	32	MC, UC, UP, LS	3	3	3	2	11	Monthly grab samples analyzed for metals, nutrients, pesticides and other organic compounds; 4 sites in MC

Table 2. Data Quality Evaluation for Products identified for High Priority Data Types. Results can be cross-referenced to detailed product summaries in Appendix C using the product identification codes listed in column 4. From Appendix C, results may be cross-referenced to the Project summaries listed alphabetically in Appendix B.

General Data Type	**Data Description**	**Product Title**	**Product ID**	**Area**	**Data Quality**					**Rationale for Density and Method Scores**
					Temporal (0-3)	**Spatial (0-3)**	**Density (0-3)**	**Methods (0-3)**	**Total Score**	
Water Quality	water chemistry	The Impact of Recycled Water on Water Quality in Coyote Creek San Jose, California in 2001	1489	MC, UC, UP, LS	3	3	2	2	10	Monthly grab samples analyzed for metals, nutrients, pesticides and other organic compounds; 3 sites in MC
	water chemistry	SCVURPPP FY 02-03 Watershed Monitoring and Assessment Summary Report	1505	UP, LS	3	1	2	2	8	Grab samples taken 3 seasonal events that were analyzed for metals, nutrients and pesticides
	water chemistry	Evaluation of First Flush Pollutant Loading and Implications for Water Resources and Urban Runoff Management	34	MC, UC	2	3	0	2	7	Grab samples taken at stormdrain outlets were analyzed for metals, nutrients, pesticides and other organic compounds
	water chemistry	SCVWD Draft Self-Monitoring Report for the In-Stream Aquatic Herbicide Control Program for Northern Santa Clara County	1518	LS	3	1	1	2	7	Grab samples taken at project site were analyzed for glyphosphate only.

[2] Data Quality of each data set/report is evaluated in terms of its temporal currency, geographic distribution, sampling density/methods in Table X. A total score is tabulated as follows:

Temporal – Biological Resources /Water Quality
0 = no data available
1 = > 15 years old
2 = 5 – 15 years old
3 = < 5 years old

Temporal – Hydrology/Geomorphology
0 = no data available
1 = pre-dam
2 = post- dam prior to urban development
3 = post-urban development

Spatial
0 = no data available
1 = Not available for Mid-Coyote, but avail for 1 or more in UC, LS, UP
2 = Available for Mid-Coyote area only
3 = Available for Coyote and 1 or both of LS or UP

Table 3. Evaluation of the quality of data products identified for medium priority data types in the four Mid-Coyote Project reaches: MC (Mid-Coyote Project), UC (Upper Coyote, up to Anderson Dam), UP (Upper Penitencia), and LS (Lower Silver). Total scores range from 0 to 6. Cumulative score for data type indicated in Table 5. Data product summaries in Appendix C can be cross-referenced by Product ID code listed in column 4.

Table 3. Data Quality Evaluation for Products identified for Medium Priority Data Types. Results can be cross-referenced to detailed product summaries in Appendix C using the product identification codes listed in column 4. From Appendix C, results may be cross-referenced to the Project summaries listed alphabetically in Appendix B.

General Data Type	Data Description	Product Title	Product ID	Area	Data Quality		
					Temporal (0-3)	Spatial (0-3)	Total Score
Aesthetics	cultural resources	Historic Resources Inventory	1577	MC, UC, UP LS	3	3	6
	natural resources	Coyote Creek Trail New and Future Developments (Project Description)	1582	MC, UC	3	3	6
	natural resources	Coyote Creek Trail Project	1576	MC, UC	3	3	6
	natural resources	Walk San Jose Coyote Creek Proposed Trail	1575	MC	3	2	5
	natural resources	Countywide Trails Plan	1607	UC	2	1	3
	natural resources	Santa Clara Parks - "parks"	1583	MC, UC, UP LS	3	3	6
	natural resources	Maybury Park/Penitencia Creek Park Chain Reach 6 Master Plan	1614	UP	3	1	4
	natural resources	Penitencia Creek Park Chain Reach 2 Park Master Plan Narrative Report	1613	UP	3	1	4
Agriculture	areas zoned for agricultural use	City of San Jose Zoning Maps	1579	MC, UC, UP LS	3	3	6
	type of agricultural use	Santa Clara County Assessors Parcel Database - "parcels"	1578	MC, UC, UP LS	3	3	6
Air Quality	topography and climate	National Hierarchical Framework of Ecological Units - "ecoregions"	1581	MC, UC, UP LS	3	3	6
	topography and climate	Watershed Management Plan, Volume 1, Watershed Characteristics Report	1571	MC, UC, UP LS	3	3	6
Geology/Soils	geology	National Hierarchical Framework of Ecological Units - "ecoregions"	1581	MC, UC, UP LS	3	3	6
	geology	Quaternary Geology in the Santa Clara Valley - "sc_geo"	1587	MC, UC, UP, LS	3	3	6
	landslides	Distribution of Landslides and Earth Flows - "landslide"	1588	UP, LS	2	1	3
	soils	National Hierarchical Framework of Ecological Units - "ecoregions"	1581	MC, UC, UP LS	3	3	6

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General Data Type	**Data Description**	**Product Title**	**Product ID**	**Area**	**Data Quality**		
					Temporal (0-3)	**Spatial (0-3)**	**Total Score**
	soils	Soil Infiltration Rate - "soilgrp1"	1590	MC, UC, UP LS	3	3	6
	soils	Soil Type - "soilgrp2"	1589	MC, UC, UP LS	3	3	6
Hazards & Hazardous Materials	location, constituents, and status of hazardous waste sites	EPA National Priorities List Superfund Sites in Santa Clara County	1611	MC, UC, UP LS	3	3	6
	location, constituents, and status of hazardous waste sites	EPA Superfund Information System Website	1610	MC, UC, UP LS	3	3	6
	location, constituents, and status of hazardous waste sites	Silicon Valley Toxics Coalition Website	1609	MC, UC, UP LS	3	3	6
Land use	county parks master plan	Strategic Plan Santa Clara County Parks and Recreation System	1605	UC	2	1	3
	county parks master plan	Countywide Trails Master Plan Update	1606	UC	2	1	3
	existing and projected land use	City of San Jose General Plan Maps	1580	MC, UC, UP LS	3	3	6
	existing and projected land use	Santa Clara County Assessors Parcel Database - "parcels"	1578	MC, UC, UP LS	3	3	6
	existing and projected land use	Watershed Management Plan, Volume 1, Watershed Characteristics Report	1571	MC, UC, UP LS	3	3	6
	general plans	City of San Jose General Plan	1600	MC, UC, UP LS	3	3	6
	general plans	Riparian Corridor Policy Study	1601	MC, UC, UP LS	3	3	6
	location of schools and airports	Santa Clara County Assessors Parcel Database - "parcels"	1578	MC, UC, UP LS	3	3	6
	watershed/catchment imperviousness	Santa Clara Watershed Existing and Future Percent Imperviousness - "sc_catchments"	70	MC, UC, UP LS	3	3	6
	watershed/catchment imperviousness	Stormwater Environmental Indicators Demonstration Project Final Report	16	MC, UC, UP LS	3	3	6
Mineral Resources	historic/existing mines	Existing and Historic Mines in Santa Clara County - "mines"	1597	MC, UC, UP LS	3	3	6
Population/Housing	location of homeless encampments	SCVURPPP trash problem area surveys	1604	MC, UC, UP LS	3	3	6
	location of residences and	Santa Clara County Assessors Parcel Database - "parcels"	1578	MC, UC,	3	3	6

Table 3. Data Quality Evaluation for Products identified for Medium Priority Data Types. Results can be cross-referenced to detailed product summaries in Appendix C using the product identification codes listed in column 4. From Appendix C, results may be cross-referenced to the Project summaries listed alphabetically in Appendix B.

General Data Type	**Data Description**	**Product Title**	**Product ID**	**Area**	**Data Quality**		
					Temporal (0-3)	**Spatial (0-3)**	**Total Score**
	commercial properties			UP LS			
	population census data	City of San Jose Population Census Data	1608	MC, UC, UP LS	3	3	6
Public Services	Locations of Fire, Police, Schools and Other Public Facilities	Santa Clara County Assessors Parcel Database - "parcels"	1578	MC, UC, UP LS	3	3	6
Recreational Resources	location of parks and constructed trails	Countywide Trails Master Plan Update	1606	UC	2	1	3
	location of parks and constructed trails	Countywide Trails Plan	1607	UC	2	1	3
	location of parks and constructed trails	Coyote Creek Trail New and Future Developments	1582	MC, UC	3	3	6
	location of parks and constructed trails	Coyote Creek Trail Project	1576	MC, UC	3	3	6
	location of parks and constructed trails	Maybury Park/Penitencia Creek Park Chain Reach 6 Master Plan	1614	UP	3	1	4
	location of parks and constructed trails	Penitencia Creek Park Chain Reach 2 Park Master Plan Narrative Report	1613	UP	3	1	4
	location of parks and constructed trails	Santa Clara Parks - "parks"	1583	MC, UC, UP LS	3	3	6
	location of parks and constructed trails	Strategic Plan Santa Clara County Parks and Recreation System	1605	UC	2	1	3
	location of parks and constructed trails	Walk San Jose Coyote Creek Proposed Trail	1575	MC	3	2	5
Transportation/ Traffic	existing roads and bridges	City of San Jose General Plan Maps	1580	MC, UC, UP LS	3	3	6
Utilities/Service Systems	public and private utilities	Stormdrains - "strmdrns"	1598	MC, UC, UP LS	3	3	6
Regulatory	flood control planning and regulatory compliance	Coyote Creek Planning Study (San Francisco Bay to Montague Expressway)	1559	MC	2	2	4
	flood control planning and regulatory compliance	Addendum to the Final Impact Report for the Lower Silver Creek Watershed Project	1557	LS	3	1	4
	flood control planning and regulatory compliance	Agreement Between the Department of the Army and the Santa Clara Valley Water District for the Feasibility Phase Study of the Upper Penitencia Creek	1562	UP	3	1	4
	flood control planning and regulatory compliance	Final Environmental Impact Statement Coyote Creek Flood Control	1560	MC	2	2	4

Table 3. Data Quality Evaluation for Products identified for Medium Priority Data Types. Results can be cross-referenced to detailed product summaries in Appendix C using the product identification codes listed in column 4. From Appendix C, results may be cross-referenced to the Project summaries listed alphabetically in Appendix B.

General Data Type	Data Description	Product Title	Product ID	Area	Data Quality		
					Temporal (0-3)	Spatial (0-3)	Total Score
	flood control planning and regulatory compliance	Lower Silver Creek Watershed Project, 1998 Plan Update Addendum to the Initial Study/Negative Declaration and Environmental Assessment/Finding of no Significant Impact	1558	LS	3	1	4
	flood control planning and regulatory compliance	Lower Silver Creek Watershed Project, 1998 Plan Update Initial Study	1556	LS	3	1	4
	flood control planning and regulatory compliance	Upper Penitencia Creek Flood Control Study, Santa Clara County, California, Reconnaissance Report	1561	UP	3	1	4
	flood control planning and regulatory compliance	Upper Penitencia Creek Watershed Final Watershed Plan and Environmental Impact Statement/Report	6	UP	2	1	3

Table 4. Summary of data compiled for High Priority Data Types: total number of products with relevant information in the Mid-Coyote Reach (MC), cumulative total data quality score (excluding score for spatial extent) and overall rank for each of the data types. Data types in bold font were evaluated for both the MC, Upper Penitencia, Lower Silver and Upper Coyote reaches because by their mobile nature, such resources may impact those in downstream reaches.

General Data Type	**Data Description**	**Total Number Products**	**Range of scores for Data Quality**	**Overall Ranking of Existing Data**
Biological Resources – Aquatic Habitat	aquatic habitat type	3	7	High
	benthic macroinvertebrate community assemblage	5	5-8	High
	instream fish cover	4	6-8	High
	salmonid spawning and/or rearing quantity/quality	7	4-7	High
	shaded riverine aquatic cover	2	4-7	High
	substrate condition	3	6-7	High
	visual physical habitat survey	1	5	Med
Biological Resources – Fisheries	**fish community assemblage**	9	4-8	High
	fish barriers	4	4-8	High
	historical fish community assemblage	2	8-9	High
	invasive species	3	5-7	High
	salmonid fish population	5	4-6	Med
	watershed assessment	3	5-8	High
	watershed management	4	4-5	Med
Biological Resources – Vegetation	canopy cover	4	6-8	High
	invasive species	1	7	High
	riparian buffer width and contiguity	1	5	Med
	riparian vegetation community	3	5-6	Med
	special status species	1	NA	NA
	wetland delineation	2	6	Med
Biological Resources – Wildlife	riparian and wetland wildlife species	1	6	Med
	special status species	1	NA	NA
Hydrology/ Geomorphology	bankfull discharge and width	0	0	Absent
	channel bed and/or bank material	2	6-7	High

General Data Type	Data Description	Total Number Products	Range of scores for Data Quality	Overall Ranking of Existing Data
Hydrology/ Geomorphology	channel cross-section/ longitudinal profile	1	8	High
	channel deposition and erosion areas	2	5-9	High
	channel modification type and location	2	6-7	High
	depth to first groundwater	1	6	Med
	historical and predicted flood areas	3	7-8	High
	flood prone area	1	7	High
	precipitation	2	8-9	High
	sediment load and yield	3	6-8	High
	sediment removal locations and volume	4	6	Med
	stream classification	3	6-8	High
	streamflow	3	5-9	High
Water Quality	general water quality	8	6-8	High
	pathogens	3	7	High
	sediment chemistry	5	4-6	Med
	toxicity bioassays	2	5-6	Med
	water chemistry	4	4-8	High

Table 5. Summary of data compiled for Medium Priority Data Types: total number of products with relevant information in the Mid-Coyote reach (MC), cumulative total data quality score, and overall rank for each of the data types.

General Data Type	**Data Description**	**Total Number Products**	**Range of scores for Data Quality**	**Overall Ranking of Existing Data**
Aesthetics	cultural resources	1	6	High
	natural resources	4	5-6	High
Agriculture	areas zoned for agricultural use	1	6	High
	type of agricultural use	1	6	High
Air Quality	topography and climate	2	6	High
Geology/Soils	geology	2	6	High
	landslides	1	3	Low
	soils	3	6	High
Hazards & Hazardous Materials	location, constituents, and status of hazardous waste sites	3	6	High
	location of schools and airports	1	6	High
Land Use	county parks master plan	0	0	NA
	existing and projected land use	3	6	High
	general plans	2	6	High
	watershed/catchment imperviousness	2	6	High
Mineral Resources	historic/existing mines	1	6	High
Population/Housing	location of homeless encampments	1	6	High
	location of residences and commercial properties	1	6	High
	population census data	1	6	High
Public Services	Locations of Fire, Police, Schools and Other Public Facilities	1	6	High
Recreational Resources	location of parks and constructed trails	4	5-6	High
Transportation/ Traffic	existing roads and bridges	1	6	High
Utilities/Service Systems	public and private utilities	1	6	High
Regulatory	flood control planning and regulatory compliance	2	4	Med

Table 6. Evaluation of data gaps with recommendations for each of the high priority data types. Data gaps were evaluated for the Mid-Coyote reach, unless data type indicated in bold, in which case data gaps were evaluated for the Mid-Coyote, Upper Penitencia, Lower Silver and Upper Coyote reaches combined.

Table 6. Data Gap Evaluation for High Priority Data Types

General Data Type	**Data Description**	**Overall Rank**	**Lack of Current Data**	**Low Spatial Density**	**Lack of Method Documentation**	**Lack of Analysis**	**Low Data Resolution**	**Overall Data Gap Evaluation**	**Recommendations to Address Data Gaps**
Biological Resources – Aquatic Habitat	aquatic habitat type	High			X	X		• No documentation on methods used for the FAHCE salmonid habitat survey. • Limited analysis of FAHCE results (note: data from other studies were either lower resolution or less spatially dense than FAHCE study).	• Document FAHCE data collection methods. • Analyze data using indicators useful to assess habitat for both warm and coldwater fishes (e.g., type and frequency of riffles and pools).
	benthic[1] macroinvertebrate community assemblage	High				X		• Limited analysis of BMI taxonomic data collected in Stream Augmentation Study with respect to evaluating habitat condition and/or water quality (note: data from other studies were either not current or less spatially dense than FAHCE study).	• Analyze data to provide metrics useful to assess habitat and water quality (e.g., multimetric or multivariate analysis).
	instream fish cover	High			X	X		• No documentation on the methods used for the FAHCE salmonid habitat survey. • Limited analysis of FAHCE results (note: data from other studies were either lower resolution or less spatially dense than FAHCE study).	• Document FAHCE data collection methods. • Analyze data using indicators useful to assess habitat condition for both warm and coldwater fishes (e.g., frequency of large woody debris and overall habitat complexity).
	salmonid spawning and/or rearing quantity/quality	High			X	X	X	• No documentation on the methods used for the FAHCE salmonid habitat survey • Limited analysis of FAHCE results (note: data from other studies were either not current or less spatially dense than FAHCE study). • Existing data not high enough resolution to determine actual use or the quality of spawning and rearing habitat.	• Document FAHCE data collection methods (e.g., identify methods for identifying the quality and quantity of 4-inch salmonid habitat). • Analyze data using indicators useful to assess habitat condition for both warm and coldwater fishes. • Conduct surveys of salmonid population to directly measure spawning and rearing success (concurrent with recommendations for salmonid population data type)

Table 6. Data Gap Evaluation for High Priority Data Types

General Data Type	Data Description	Overall Rank	Lack of Current Data	Low Spatial Density	Lack of Method Documentation	Lack of Analysis	Low Data Resolution	Overall Data Gap Evaluation	Recommendations to Address Data Gaps
									• Alternatively, conduct special study measuring permeability of spawning gravels as a more direct indicator of spawning potential.
Biological Resources – Aquatic Habitat	shaded riverine aquatic cover	Med	X	X				• Existing data is not current and only represents a single location in the Lower Coyote Project Area. • Consider using field data from FAHCE habitat survey as a surrogate for SRA.	• Analyze FAHCE data using %canopy cover and % bank vegetation as surrogate for SRA cover vegetation components **overhead cover** and **instream cover.** • Aforementioned requires documentation of FAHCE data collection methods.
	substrate condition	High			X	X		• No documentation on the methods used for the FAHCE salmonid habitat survey. • Limited analysis of FAHCE results (note: data from other studies were less spatially dense than FAHCE study).	• Document FAHCE data collection methods (e.g., method for measuring embeddedness). • Analyze data using indicators useful to assess habitat for both warm and coldwater fishes.
	visual physical habitat survey	Med	X	X			X	• Qualitative rapid assessment of habitat condition not current and only represents a few sites in project area. • Low data resolution (note: existing habitat data from FAHCE provides more quantitative information on habitat condition)	• No recommendations because rapid physical habitat assessment is useful as a tool to monitor status and trends of habitat condition; but likely not quantitative enough for Mid Coyote Project objectives.

Table 6. Data Gap Evaluation for High Priority Data Types

General Data Type	Data Description	Overall Rank	Lack of Current Data	Low Spatial Density	Lack of Method Documentation	Lack of Analysis	Low Data Resolution	Overall Data Gap Evaluation	Recommendations to Address Data Gaps
Biological Resources – Fisheries	**fish community assemblage**	High	X	X				• Fish survey data collected in Coyote mainstem is either not current (1998) or is not representative due to artificial streamflows (1999). • Lack of existing data for major tributaries, which may provide important refugia for warm water native fish utilizing Coyote mainstem.	• Recommend repeating fish surveys in Coyote mainstem during more typical summer stream flow conditions. • Recommend conducting surveys in Upper Penitencia and Lower Silver Creek to determine condition of native fish population
Biological Resources – Fisheries	**fish barriers**	High				X	X	• Impacts of fish barriers have not been assessed for warm water native fish migration. • Existing data not high enough resolution to measure success of recent management actions to improve fish passage for salmonid fish migrations (primarily for Upper Coyote area).	• Recommend additional analysis of the impacts of existing barriers to warm water fish community. • Recommend monitoring of adult steelhead and smolt migration through Coyote Dam fish ladder and Metcalf Ponds.
	historical fish community assemblage	High						• No data gaps.	• No recommendations.
	invasive species	High				X	X	• Existing aquatic surveys provides distribution and abundance data for invasive fish and mitten crab. Importance of other invasive species unknown (e.g., Asian Clam). • Lack of analysis on the ecological impacts of non-native fishes.	• Investigate potential occurrence of other invasive aquatic species in the project area. • Recommend study to determine affects of non-native fish predation on native fish community.

Table 6. Data Gap Evaluation for High Priority Data Types

General Data Type	Data Description	Overall Rank	Lack of Current Data	Low Spatial Density	Lack of Method Documentation	Lack of Analysis	Low Data Resolution	Overall Data Gap Evaluation	Recommendations to Address Data Gaps
	salmonid fish population	Med	X	X		X		• Lack of current Chinook salmon immigration and emigration data (i.e., spawning survey and smolt trap data) in the Coyote mainstem. • Lack of any steelhead immigration and emigration data for Upper Coyote and Upper Penitencia Creek. • Lack of current data on condition of steelhead trout population in Upper Penitencia and upper Coyote Creek area. • Limited analysis by FAHCE study on factors other than stream flow conditions that may potentially be limiting salmonids	• Recommend conducting Chinook salmon and steelhead spawning surveys and monitoring smolt emigration (i.e., smolt trap) below spawning areas in Coyote mainstem and Upper Penitencia Creek. • Recommend surveying steelhead population in Upper Penitencia and Upper Coyote (note: monitoring salmonid fish populations will be highly dependent on ability to obtain necessary permits). • Conduct additional analyses on factors that may limit salmonid populations (e.g., degradation of habitat by excessive sediment)
Biological Resources – Fisheries	**watershed assessment**	High	X			X	X	• Low resolution for some of the existing data used to assess the ecological and physical ecosystem functions for Coyote mainstem and tributaries. • Limited analyses of the biological data needed to understand changes in biological integrity for sites in the Coyote mainstem. • Limited analysis of the tributary impacts of sediment transport and water quality to ecosystem functions in the Coyote mainstem. • Limited data available to assess Recreational Beneficial Uses.	• Collect geomorphic survey data, more detailed riparian vegetation data and investigate stream flow patterns and water quality during dry season. • Assess fish and benthic macroinvertebrate data and identify appropriate metrics to measure changes in biological integrity for sites in the Coyote mainstem. • Assess existing sediment transport and water quality data from tributaries to better understand impacts to mainstem. • Collect bacterial indicator data at selected locations to assess attainment of Recreational Beneficial Uses (see data gap rationale for pathogens).

Table 6. Data Gap Evaluation for High Priority Data Types

General Data Type	Data Description	Overall Rank	Lack of Current Data	Low Spatial Density	Lack of Method Documentation	Lack of Analysis	Low Data Resolution	Overall Data Gap Evaluation	Recommendations to Address Data Gaps
	watershed management	Med		X				• FAHCE study developed management actions that focus on Upper Coyote area; limited management actions have been identified to improve fisheries condition in Upper Penitencia Creek. • Lack of existing management actions to enhance warm water fish population and habitat and water quality in MC.	• Identify and implement critical management actions to enhance fisheries in Upper Penitencia Creek. • Identify and implement critical management actions in MC.
Biological Resources – Vegetation	canopy cover	High			X	X		• No documentation on the methods used for the FAHCE salmonid habitat survey. • Limited analysis of FAHCE results (note: data from other studies were less spatially dense than FAHCE study).	• Document FAHCE data collection methods. • Analyze data using indicators useful to assess habitat condition for both warm and coldwater fishes.
	invasive species	Med			X		X	• No documentation on the methods used for SCVAS mapping project. • Existing data has low resolution (only provides distribution of *Arrundo)*.	• Recommend riparian vegetation surveys at selected locations to identify percent native species in riparian community (see recommendation for riparian vegetation community).
	riparian buffer width and contiguity	Med	X					• Existing data is not current (based on 15 – 25 year old aerial photos).	• Recommend digitizing riparian corridor using existing aerial photos taken in 2001.
Biological Resources – Vegetation	riparian vegetation community	Med	X				X	• The San Jose Creek Vegetation Buffer GIS data layer is not current and has limited data resolution.	• Recommend collecting vegetation community data (e.g., plant composition, age structure, percent native vs non-native) along transects at selected locations along the riparian corridor.
	special status species	NA	X					• Existing data from CNPS provides single species occurrence records based on reports; dates of reports vary and exact locations are not provided.	• Verify locations, occurrence and endangered status of plant species reported to be in project area.

Table 6. Data Gap Evaluation for High Priority Data Types

General Data Type	Data Description	Overall Rank	Lack of Current Data	Low Spatial Density	Lack of Method Documentation	Lack of Analysis	Low Data Resolution	Overall Data Gap Evaluation	Recommendations to Address Data Gaps
	wetland delineation	Med		X			X	• Existing data from EcoAtlas and National Wetlands Inventory delineates wetland areas only for the lowest reaches of project area. • Existing data from City of San Jose is continuous throughout project area, but low resolution.	• See data gap recommendations for riparian contiguity and buffer and riparian vegetation community.
Biological Resources – Wildlife	riparian and wetland wildlife species	Med	X	X			X	• Existing data from the SCVWD wildlife surveys conducted as part of Stream Maintenance or Flood Protection projects were generally not current, had low spatial density and provided low resolution.	• Recommend conducting surveys on bird, mammal, amphibian and reptile populations at selected locations along the riparian corridor of the project area.
	special status species	NA	X					• Existing data from CNDDB provides single species occurrence records based on reports; dates of reports vary and exact locations are not provided.	• Verify locations, occurrence and endangered status of wildlife species reported to be in project area.
Hydrology/ Geomorph	bankfull discharge and width[2]	None	X	X				• No existing available data.	• Recommend measuring bankfull widths and depths and bankfull discharge; calibrate in the field during high flow event.
	channel bed and/or bank material[2]	High			X		X	• No documentation on methods used for the FAHCE salmonid habitat survey. • Existing data is low resolution for evaluating channel dynamics (i.e., sediment transport).	• Document FAHCE data collection methods. • Conduct sediment reconnaissance to identify bed material (i.e., pebble count or bulk samples) and bank material.
Hydrology/ Geomorph	channel cross-section/ longitudinal profile[2]	Med	X		X			• Channel cross-sections reported for most of the project area and tribs; however, methods and dates of the existing cross-section data not available. • No available existing longitudinal profile data for project area.	• Recommend collecting channel cross-sections (at riffles) and longitudinal profile data during low flow season for 2-3 years prior to project design. Also recommend collecting channel profiles above and below project area.
	channel deposition	High		X			X	• Existing data only available for tributaries	• Recommend measuring change in

Table 6. Data Gap Evaluation for High Priority Data Types

General Data Type	Data Description	Overall Rank	Lack of Current Data	Low Spatial Density	Lack of Method Documentation	Lack of Analysis	Low Data Resolution	Overall Data Gap Evaluation	Recommendations to Address Data Gaps
	and erosion areas[2]							but not project area. • Existing data is low resolution for understanding channel dynamics (i.e., sediment supply and transport).	streambed and banks by local survey (e.g., erosion chains and pins) for 2-3 years prior to project design.
	channel modification type and location	High	X		X			• No documentation on methods used to assign channel type information in GIS database or on the frequency and location of updates to the database. • Existing data is incomplete (e.g., channel hardness attribute is not identified for all segments).	• Document methods for developing and updating channel type information in the SCVWD Creeks GIS data layer. • Fill in missing attributes of channel type database.
	depth to first groundwater	Med			X			• No documentation on methods used to develop SCVWD groundwater elevation data; no documentation on the relative accuracy of data.	• Document methods for developing SCVWD elevation to first groundwater data layer.
	historical and predicted flood areas	High			X			• Source and accuracy of basemaps was unknown for historical flood data.	• No recommendations (existing data gap not expected to impact project goals).
	flood prone area	Med			X		X	• No documentation on the methods used for the FAHCE salmonid habitat survey. • Low data resolution with respect to identifying widths of the flood prone area and the stream flow event required to access flood plain.	• Document FAHCE data collection methods (e.g., methods for evaluating flood prone area). • Conduct geomorphic survey identifying location and flood plain area during a dominant discharge event.
	precipitation	High						• No data gaps.	• No recommendations.
Hydrology/ Geomorph	**sediment load and yield[2]**	High	X			X		• No existing available data in MC. • No assessment of the impacts from the tributary's sediment supply and transport to mainstem Coyote.	• Conduct sediment reconnaissance to identify sediment load and yield for Coyote mainstem. • Assess tributaries' existing sediment yield data impacts to mainstem.

Table 6. Data Gap Evaluation for High Priority Data Types

General Data Type	Data Description	Overall Rank	Lack of Current Data	Low Spatial Density	Lack of Method Documentation	Lack of Analysis	Low Data Resolution	Overall Data Gap Evaluation	Recommendations to Address Data Gaps
	sediment removal locations and volume	Med					X	• Existing data in tributaries is low resolution (i.e., does not provide enough detailed information to understand sediment supply and channel dynamics)	• Sediment removal data provides indirect evidence of sediment depositional areas; however higher resolution data is needed to understand channel dynamics (see channel deposition and erosion areas and sediment load and yield data gaps).
	stream classification	High					X	• Existing channel classifications for project area lack resolution to understand current channel dynamics.	• Conduct geomorphic survey and historical ecology of Coyote mainstem to understand current channel dynamics and physical stream processes (e.g., current rates of channel incision).
	streamflow	High					X	• Limited history of streamflow data recorded in urbanized areas (i.e., areas in the watershed downstream of urban runoff) to understand hydrologic impacts from development.	• Continue to record streamflow at Hwy 237 gage in Coyote mainstem and evaluate potential changes to hydrograph.
Water Quality	general water quality	High						• No data gaps.	• No recommendations.
	pathogens	High					X	• Existing bacterial indicator data is not sufficient to determine attainment of recreational beneficial uses.	• Recommend collecting bacterial indicator data in areas likely to have water contact recreation (e.g., parks, swimming areas near trails)
	sediment chemistry	Med		X				• Existing data from the SEIDP only available in a few sites in the Coyote mainstem (note: other studies focused in tribs or in stormdrain catchments)	• Analyze chemistry of sediment samples collected from project area to identify potential contaminants.
Water Quality	toxicity bioassays	Med		X			X	• Existing data had limited resolution (i.e., few species) and were only available in a few sites in the Coyote mainstem.	• Consider conducting toxicity testing for 3 species (fish, invertebrate and algae) at selected locations in Coyote mainstem.

Table 6. Data Gap Evaluation for High Priority Data Types

General Data Type	Data Description	Overall Rank	Lack of Current Data	Low Spatial Density	Lack of Method Documentation	Lack of Analysis	Low Data Resolution	Overall Data Gap Evaluation	Recommendations to Address Data Gaps
	water chemistry	High						• No data gaps.	• No recommendations.

[1] Benthic macroinvertebrate community assemblage is also a data type that is relevant to Water Quality.

2 Data collection recommendations for these data types are from the following reference: (Bill Annable, Univeristy of Waterloo and Chester Watson, Colorado State University, personal communication, July 2003, Applied Geomorphology Short Course, sponsored by GCRCD)

References

Duckler, S. and Martin, M. 2004. Draft Guidance on Alternative Evaluation and Selection for natural Flood Protection Projects. Prepared by the Santa Clara Valley Water District, Watershed Planning Unit.

Fowler, George, Shao, Z., Mendoza, L., Oman, P. 2003. Coyote Creek Project, Montague Expressway to Interstate 280, Project Number 26143. Prepared by the Capital Program Services Division of the Santa Clara Valley Water District, San Jose, California.

Geosyntec Consultants, Inc. 2003. Hydromodification Management Plan Draft Interim Report, Assessment of the Lower Silver-Thompson Creek Subwatershed. Prepared for the Santa Clara Valley Urban Runoff Pollution Prevention Program, Sunnyvale, CA.

San Francisco Regional Water Quality Control Board. 2002. Environmental Checklist. http://www.swrcb.ca.gov/rwqcb2/Download.htm

Santa Clara Valley Urban Runoff Pollution Prevention Program. 2003. Assessment of Stream Ecosystem Functions for the Coyote Creek Watershed. Coyote Creek Watershed integrated Pilot Assessment Final Report. Prepared by Lucy A.J. Buchan and Paul J. Randall, EOA Inc., program managers for the Santa Clara Valley Urban Runoff Pollution Prevention Program. Oakland, CA.156 pp + appendices.

Mid-Coyote Project Appendices

Appendix A. SCVURPPP Metadata Database Entry Screens

Appendix B. Mid-Coyote Project Database Report

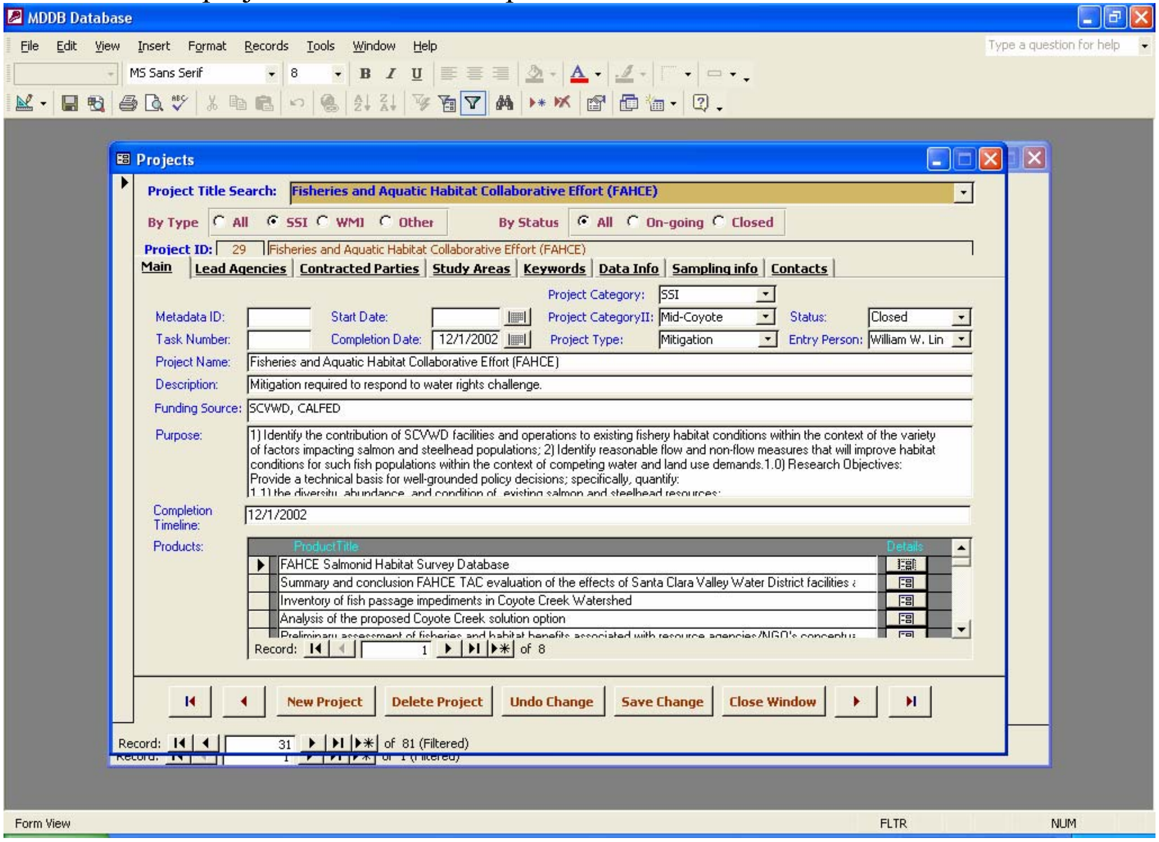
Appendix C. Mid-Coyote Product Database Report

Appendix D. Index Table of Products Delivered to SCVWD

Appendix A

SCVURPPP Metadata Database Entry Screens

Appendix A. Data entry screens from the SCVURPPP Metadata database used to enter information on projects and associated products from Santa Clara Basin stream studies.



Project Title Search: Fisheries and Aquatic Habitat Collaborative Effort (FAHCE)

By Type ○ All ● SSI ○ WMI ○ Other **By Status** ● All ○ On-going ○ Closed

Project ID: 29 Fisheries and Aquatic Habitat Collaborative Effort (FAHCE)

Main | Lead Agencies | Contracted Parties | Study Areas | Keywords | Data Info | Sampling info | Contacts

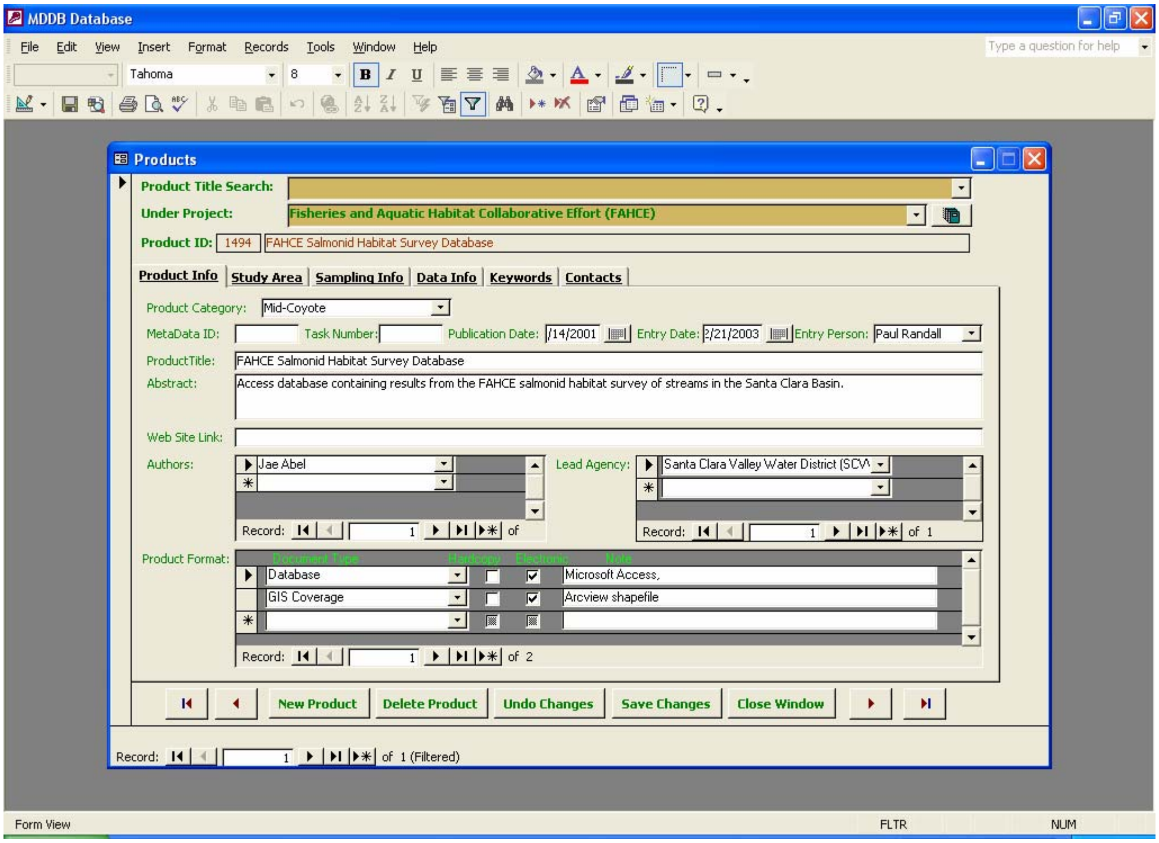
Project Category: SSI
Metadata ID:
Start Date:
Project CategoryII: Mid-Coyote
Status: Closed
Task Number:
Completion Date: 12/1/2002
Project Type: Mitigation
Entry Person: William W. Lin
Project Name: Fisheries and Aquatic Habitat Collaborative Effort (FAHCE)
Description: Mitigation required to respond to water rights challenge.
Funding Source: SCVWD, CALFED
Purpose: 1) Identify the contribution of SCVWD facilities and operations to existing fishery habitat conditions within the context of the variety of factors impacting salmon and steelhead populations; 2) Identify reasonable flow and non-flow measures that will improve habitat conditions for such fish populations within the context of competing water and land use demands.1.0) Research Objectives:
Provide a technical basis for well-grounded policy decisions; specifically, quantify:
1.1) the diversity, abundance, and condition of existing salmon and steelhead resources;
Completion Timeline: 12/1/2002

Products:

ProductTitle	Details
FAHCE Salmonid Habitat Survey Database	
Summary and conclusion FAHCE TAC evaluation of the effects of Santa Clara Valley Water District facilities	
Inventory of fish passage impediments in Coyote Creek Watershed	
Analysis of the proposed Coyote Creek solution option	
Preliminary assessment of fisheries and habitat benefits associated with resource agencies/NGO's conceptu	

Record: 1 of 8

Record: 31 of 81 (Filtered)



Product Title Search:
Under Project: Fisheries and Aquatic Habitat Collaborative Effort (FAHCE)
Product ID: 1494 FAHCE Salmonid Habitat Survey Database

Product Info | Study Area | Sampling Info | Data Info | Keywords | Contacts

Product Category: Mid-Coyote
MetaData ID:
Task Number:
Publication Date: /14/2001
Entry Date: 2/21/2003
Entry Person: Paul Randall
ProductTitle: FAHCE Salmonid Habitat Survey Database
Abstract: Access database containing results from the FAHCE salmonid habitat survey of streams in the Santa Clara Basin.
Web Site Link:
Authors: Jae Abel
Record: 1 of
Lead Agency: Santa Clara Valley Water District (SCV
Record: 1 of 1

Product Format:

Document Type	Hardcopy	Electronic	Note
Database	☐	☑	Microsoft Access,
GIS Coverage	☐	☑	Arcview shapefile

Record: 1 of 2

Record: 1 of 1 (Filtered)

Appendix B

Mid-Coyote Project Database Report

Mid-Coyote Projects

2/25/2004

Santa Clara Valley
Urban Runoff
Pollution Prevention Program

Project Title: **Aquatic Resource Characterization of Western Mt. Hamilton Stream Fisheries**

Description:

Purpose: To assist The Nature Conservancy's decision making regarding conservation activities on the western drainage areas of Mt. Hamilton by characterizing the status of aquatic resources, as well as stressors and existing activities that may alleviate stresses. Specific objectives include: 1) define stream reaches that distinguish biological communities and aquatic habitats and use them for analysis and identifying potential management recommendations; 2) develop criteria to evaluate capacity of stream reach to maintain stream ecosystem functions; 3) inventory sources of threats affecting aquatic resources; 4) identify existing and planned projects that will act as conservation solutions to threats; 5) evaluate existing, future and potential capacity of stream ecosystem functions; and 6) recommend potential management actions that would improve functional capacity.

Timeline: Report completed December 30, 1999

Contact Info:

Name: Lucy Buchan
Organization: Santa Clara Valley Urban Runoff Pollution Prevention Program (SCVURPPP)
Phone: 650-637-1081
Email: buchan@eoainc.com

Project Title: **Baseline Development for the HMP and the Regional Stormwater Management Program**

Description: Collect information on storm drain outfalls, determine catchment areas and percent imperviousness of the corresponding catchments serviced by the outfalls; use the information to develop baseline information for the Hydromodification Management Program (HMP) and Regional Stormwater Management Program.

Purpose: The project will assist in the future development of design criteria based on the HMP. The design criteria for the HMP will be used to develop on-site and regional alternatives for stormwater management and treatment.

The primary tasks for this project are:
1) Establish baseline conditions for stormdrain outfalls, corresponding catchment areas, stream channels, and percent imperviousness within catchments;
2) Future changes in percent imperviousness based on current plans;
3) Identify areas that are not exempt from HMP requirements based on absence of hardened channels;
4) Field verify data for critical segments; and
5) Incorporate information in a format that can become part of a GIS database

Timeline: Data will be developed by September 2003.

Contact Info:

Name: Dipankar Sen
Organization: Santa Clara Valley Water District (SCVWD)
Phone: 408-265-2607 x3036
Email: dsen@valleywater.org

Project Title: **California Native Plant Society's Electronic Index**

Description: Rare and endangered plant locations in State of California.

Purpose: Database that summarizes information on the distribution of rare plants in California.

Timeline: Ongoing

Contact Info:

Name:	CNPS Botanist
Organization:	California Native Plant Society (CNPS)
Phone:	916-324-3816
Email:	cnps@cnps.org

Project Title: **California Natural Diversity Data Base**

Description: Database providing information on California's most imperiled elements of natural diversity.

Purpose: To provide current information on the threatened, endangered and special concern species found in California.

Timeline: Ongoing

Contact Info:

Name:	Ken Hashagen
Organization:	California Department of Fish and Game (CDFG)
Phone:	916-322-2493
Email:	

Project Title: **CDFG Report of Specimens Captured - Coyote Creek**

Description: List of fish species captured in Coyote Creek (1989 and 1994)

Purpose: Report of specimens captured under permit restrictions

Timeline:

Contact Info:

Name:	M. Roper
Organization:	California Department of Fish and Game (CDFG)
Phone:	408-842-8917
Email:	

Project Title: **Coyote Creek Stream Stewardship Plan (SSP)**

Description: Develop strategy for implementing the SCVWD Ends Policy using a watershed management approach within the Coyote Creek Watershed.

Purpose: Development of stream stewardship plan for stream corridors within the Coyote Watershed, to define existing conditions and status of District support activities and long-range projections, and identify improvement projects in the areas of stream maintenance, capital projects, wetlands mitigation, habitat conservation, riparian restoration, non-point source pollution prevention and watershed management. Candidate projects include studies to obtain additional information and data. Implementation of projects will be dependent on the availability of funding, regulatory requirements, and existence of high priority projects, such as those in response to emergencies and requests from partner agencies.

Timeline: Final Plan completed April 2002

Contact Info:

Name:	Sarah Young
Organization:	Santa Clara Valley Water District (SCVWD)
Phone:	408-265-2607
Email:	SYoun@valleywater.org

Project Title: **Coyote Creek Watershed Integrated Pilot Assessment**

Description: Assessment of Coyote Creek watershed using a stream ecosystem functional approach.

Purpose: The general project objective is to develop and test, on a pilot scale, an integrated watershed assessment approach in the Coyote Creek watershed. The project includes development and continuous improvement of watershed assessment methods in cooperation with the Santa Clara Basin Watershed Management Initiative (SCBWMI) and the Regional Water Quality Control Board. The assessment will stress linkage of stream hydrogeomorphic functions (movement of water and sediment) to habitat functions and how these functions support aquatic life beneficial uses.The specific objectives are to: 1) Identify the major issues affecting watershed health in the Coyote watershed; 2) Develop a list of appropriate management actions to preserve and enhance the Coyote watershed; 3) Identify appropriate monitoring locations and provide baseline information for a long-term monitoring program for continued watershed assessment; 4) Contribute to the SCBWMI.

Timeline: Final Report Completed May 2003

Contact Info:

Name: Lucy Buchan
Organization: Santa Clara Valley Urban Runoff Pollution Prevention Program (SCVURPPP)
Phone: 650-637-1081
Email: buchan@eoainc.com

Project Title: **Ecology and Impacts of the Chinese mitten crab (Eriocheir sinensis) in San Francisco Bay**

Description: This is an ongoing research and monitoring project to examine the ecology and impacts of the Chinese mitten crab, with particular focus on the brackish and freshwater ecosystems of south San Francisco Bay.

Purpose: To monitor invasive mitten crab populations since 1996 in the South Bay estuary and tributaries.
To monitor population dynamics of the Chinese mitten crab; examine ecology and habitat associations throughout the life cycle of the crab; monitor burrowing activities and quantify effects to banks and levees; explore trophic ecology and impacts of the Chinese mitten crab; examine competitive interactions with co-occurring crustacea.

Timeline: Study will be completed in the Fall 2002

Contact Info:

Name: Debbie Rudnick
Organization: University of California, Berkeley
Phone: 510-642-6315
Email: drudnick@nature.berkeley.edu

Project Title: **Factors Affecting the Distribution of Lotic Macroinvertebrates in an Urban Setting**

Description: Research project sampling benthic macroinvertebrate communities in urban streams
Distribution and Abundance of Lotic Macroinvertebrates during Spring 1997 in seven streams of the Eastern Santa Clara Valley Area, California. (USGS Open-File Report 00-68) Data and reports soon to be available online. Research to improve the USGS National Water-Quality Assessment Program, and to establish biomonitoring protocols in the South Bay and other urban centers.

Purpose: To determine the factors that most influence the distribution of stream macroinvertebrates in an urban environment.Relate the distribution of lotic macroinvertebrates to site- and basin-scale physical, chemical, and geomorphological variables. Determine how these factors vary within and among sub-basins and determine their rate of longitudinal (downstream) change. Explore the relationships between variables driving the distribution of lotic macroinvertebrates and measures of urbanization, such as: population density, percentage impervious area, etc.

Timeline: Fieldwork completed in 1997; preliminary results published in 2000; final analysis and report not completed

Contact Info:

Name: James L. Carter
Organization: United States Geological Survey (USGS)
Phone: 650-329-4439
Email: jlcarter@usgs.gov

Project Title:	**First Flush Monitoring Project**
Description:	Permit Compliance: NPDES
Purpose:	Support IC/ID, Industrial Inspection Programs, and Outreach Programs by identifying sectors in City of San Jose with greatest pollutant loads.Collect and analyze samples from major storm drain outfalls to identify the presence and relative magnitude of pollutants in different sectors of the stormwater system. As the City continues to collect data for this and the Stormwater Monitoring to Support IC/ID and Industrial Inspection Programs, a feasibility study for modeling storm water runoff and loads assessment will be done.
Timeline:	Fieldwork conducted 1997 - April 2000; results published in January 2004
Contact Info:	

Name:	James Downing
Organization:	City of San Jose
Phone:	408-945-5168
Email:	James.Downing@sanjoseca.gov

Project Title: **Fisheries and Aquatic Habitat Collaborative Effort (FAHCE)**

Description: Mitigation required to respond to water rights challenge.

Purpose: 1) Identify the contribution of SCVWD facilities and operations to existing fishery habitat conditions within the context of the variety of factors impacting salmon and steelhead populations; 2) Identify reasonable flow and non-flow measures that will improve habitat conditions for such fish populations within the context of competing water and land use demands.1.0) Research Objectives: Provide a technical basis for well-grounded policy decisions; specifically, quantify:
1.1) the diversity, abundance, and condition of existing salmon and steelhead resources;
1.2) habitat quantity and quality that may limit the above listed in (1.1);
1.3) non-flow measures that could change existing conditions that limit the above listed in (1.1);
1.4) alternative flow regimes that could change the conditions that limit the above listed in (1.1).

2.0) Management Objectives: Identify and evaluate alternative management actions based in part on the above studies and on the following:
2.1) Improve habitat conditions to maintain fish populations in good condition;
2.2) Protect, maintain, and improve habitat conditions for species listed under the State and Federal Endangered Species Acts or identified as California Species of Special Concern;
2.3) Improve the availability and suitability of stream corridor and channel habitat for a diversity of species of fish and wildlife.

Timeline: Fieldwork conducted 1998 - 2000; Water Rights Settlement and Fish Habitat Management Plan developed in 2003

Contact Info:

Name:	Scott Akin
Organization:	Santa Clara Valley Water District (SCVWD)
Phone:	408-265-2607 x2060
Email:	SAkin@valleywater.org

Project Title: **Genetic Relationships Among Steelhead and Rainbow Trout Populations in Tributaries to South San Francisco Bay (Phase II)**

Description: Research for Masters Thesis

Purpose: To determine genetic relationships among different populations of steelhead/rainbow trout and the relative influence of hatchery stocking on populations genetics.Perform microsatellite analysis on steelhead/rainbow trout populations at select South Bay tributaries, determine which populations are more genetically similar, and compare this technique with the RAPD technique.

Timeline: Research completed in 2001; thesis not completed

Contact Info:

Name: David Salsbery
Organization: Santa Clara Valley Water District (SCVWD)
Phone: 408-265-2607 x2713
Email: DSalsbery@valleywater.org

Project Title: **GIS Databases**

Description: Geographic Information System Databases

Purpose: Compile Geographic Information System Databases Relevant to Mid-Coyote Project.

Timeline: Varies by database

Contact Info:

Name: Jill Bernhard
Organization: Santa Clara Valley Water District (SCVWD)
Phone: 408-265-2607 x2220
Email: jbernhard@valleywater.org

Project Title: **Hazardous Waste Site Information**

Description: Information resources on hazardous waste sites.

Purpose: Compile information resources identifying location and status of hazardous waste sites in the Mid-Coyote Project area.

Timeline: Ongoing

Contact Info:

Name: Margret Brown
Organization: United States Environmental Protection Agency (USEPA)
Phone: 800-775-5037
Email: brown.margret@epa.gov

Project Title: **Historical Distribution and Current Status of Anadramous Fishes in Streams of the San Francisco Bay Estuary, California**

Description: Document and assess historical and current records of anadramous fishes in San Francisco Bay streams.

Purpose: Purpose was to document and assess status and trends of steelhead, coho salmon, and chinook salmon populations in San Francisco Bay streams. Causes of population decline and identification of potential management actions were assessed for each stream containing anadramous fish populations.

Timeline: Final report completed in October 2003

Contact Info:

Name: Robert Leidy
Organization: United States Environmental Protection Agency (USEPA)
Phone: 415-744-1078
Email: leidy.robert@epamail.epa.gov

Project Title: **Hydromodification Management Plan (HMP)**

Description: The Hydromodification Management Plan (HMP) will be a guidance document to assist Co-permittees in the management of increases in peak runoff flow and increased runoff volume from certain new development and redevelopment projects.

Purpose: Provision C.3.f. of the NPDES permit requires the Dischargers to develop a HMP. Dischargers must manage increases in peak runoff flow and increased runoff volume from certain new development and redevelopment projects so that post-project runoff does not exceed pre-project rates and durations where the increased runoff from the project will result in increased potential for erosion or other adverse impacts to beneficial uses, attributable to changes in the amount and timing of runoff.

The goal of the hydromodification program is to protect the physical, chemical, and biological functions of stream systems in urbanizing areas. To fully understand and manage hydromodification, an assessment method was developed to address the cumulative effects, including historical, of urbanization on hydrology, water quality, and geomorphology on a watershed scale. Once this is done, project based control strategies can then be identified and evaluated for their effectiveness in meeting the permit requirements. In order to meet the above goal and the permit requirements the following project objectives were defined:

a) Develop a watershed-based approach to address the impacts of hydromodification on the beneficial uses of streams;

b) Develop, test, and apply an assessment method to evaluate potential hydrograph change and impacts to stream channels from proposed projects, and identify where such changes can cause increased erosion of creek beds and banks, silt pollutant generation, or other impacts to beneficial uses;

c) Develop design criteria, control measures, and guidance on management strategies to address hydromodification and identified impacts;

d) Manage the impacts of hydromodification on streams through the implementation of the HMP;

e) Monitor the effectiveness of the control measures and management strategies, and amend the HMP as needed.

As part of developing the HMP, the Lower Silver - Thompson Creek subwatershed, a tributary to Coyote Creek, was selected to develop, test, and verify the effectiveness of the HMP assessment methodology. The assessment method was developed to evaluate the impacts of hydromodification on stream channel stability and predict impacts from future development projects. A field geomorphic assessment was conducted in the Thompson Creek watershed to improve the understanding of the hydrologic and geomorphic processes controlling channel stability within an urbanizing watershed.

Another field geomorphic assessment will be conducted in the Ross Creek subwatershed, a tributary to Guadalupe River, during the summer season of FY 03-04. The purpose of this assessment is to determine if the results of the Thompson Creek assessment are significantly different from those for Ross Creek, a watershed with different climatic, geologic and geomorphic conditions.

Timeline: Pilot Assessments completed in March 2004; Final HMP is scheduled to be complete in October 2004.

Contact Info:

Name:	Jill Bicknell
Organization:	Santa Clara Valley Urban Runoff Pollution Prevention Program (SCVURPPP)
Phone:	408-720-8811
Email:	jcbicknell@eoainc.com

Project Title: **Joint Stormwater Agency Project to Study Urban Sources of Mercury and PCBs**

Description: To collect and analyze deposited sediments from 1)urban residential/commercial catchments; 2) urban industrial catchments; 3) open space; and 4)downstream sites representative of entire watersheds for PCBs and mercury/methylmercury.

Purpose: To assist the Regional Board with answering questions regarding the role of urban storm drain systems in conveying PCBs and mercury to San Francisco Bay.The objectives of this project were to determine 1) the range of concentrations of PCBs and mercury in urban storm drain embedded sediments; 2) if there are significant differences between stations draining residential/commercial land uses vs. those draining industrial land uses; 3) if there are significant regional differences; 4) if storm drains or other surface drainage pathways are sources of PCBs in themselves; and 5) if there are specific locations within watersheds where prior or current use of PCBs (or mercury) result in land sources contributing to continued PCB (or mercury) discharges through the stormwater conveyance systems. In addition, the project was designed to contribute information that the Regional Board might use to calculate loadings of PCBs and mercury from urban areas.

Timeline: Regional sampling conducted in 2001 and 2002; two year case study in San Jose completed in 2003.

Contact Info:

Name:	Marty Stevenson
Organization:	Kinnetic Laboratories, Inc.
Phone:	808-661-1110
Email:	mstevens@kinneticlabs.com

Project Title: **Lake Cunningham Improvement Project (Formerly Silver-Thompson Flood Protection)**

Description: Resource Management for Flood Protection

Purpose: Project goals are to reduce damages by existing and expected future flooding, sedimentation, and erosion in the Silver - Thompson Creeks watersheds upstream of Cunningham Avenue to Aborn Road.

Project objectives are to: 1) Plan, design and construct modifications to allow Lake Cunningham to operate as an off-stream storage facility as originally planned under the NRCS/SCVWD Lower Silver Watershed Project; and 2) Prepare & submit LOMAR /CLOMAR application to FEMA for Lower Silver Creek, Reaches 1 to 6.

Hydrologic Study completed April 2001. Verified design flows. Future project work and responsible parties include: Hydraulic Design (SCVWD); Social Environment Study (N/A); Hazardous Materials Study (SCVWD); Fish and Wildlife Studies (as necessary) (SCVWD); Economic Studies (N/A); and Surveying and Mapping (SCVWD).

Timeline: Project completed in 2006.

Contact Info:

Name:	George Fowler
Organization:	Santa Clara Valley Water District (SCVWD)
Phone:	408-265-2607 x2748
Email:	Gfowler@valleywater.org

Project Title: **Lower Coyote Creek Flood Control Project**

Description: Mitigation and Monitoring Reports for the Lower Coyote Creek Flood Control Project area

Purpose: Monitor the effects of the adopted Standish Dam mitigation as it benefits or is detrimental to anadromous salmonids (emphasis on steelhead) and the riparian vegetation in the area. Monitoring project is part of mitigation for Lower Coyote Creek Flood Control Project. Initial mitigation plans included modification of the dam, however the CDFG, USFWS, USACE and SCVWD agencies concluded the dam was detrimental to salmonids and recommended not reinstalling the dam. The SCVWD monitored salinity and fish migration effects in the absence of the Dam. Fish monitoring was conducted from 1998-2000 and included operation of anadramous salmonid down-mirgrant (juvenile) and up-migrant (adult) traps. Water quality monitoring was conducted in 2001 (although not required for mitigation). Photo monitoring of vegetation was conducted 1999-2001. Mitigation monitoring ended in 2000 and further mitigation efforts are pending regulatory agencies

Timeline: Project completed in 1996; mitigation monitoring completed in 2000 (pending approval of regulatory agencies).

Contact Info:

Name: Doug Padley
Organization: Santa Clara Valley Water District (SCVWD)
Phone: 408-265-2607 x2725
Email: DPadley@valleywater.org

Project Title: **Penitencia Creek Master Plan**

Description: Plan for developing Penitencia Creek Parkchain

Purpose: Identify goals and objectives for developing the Penitencia Creek Park Chain. The Master Plan was developed by the County of Santa Clara with the assistence of the City of San Jose and the Santa Clara Valley Water District. The creekside park chain extends between Coyote Creek to the west and Alum Rock Park to the east. Design improvements for the park chain were divided up into seven reaches. On July, 1981, the three agencies entered into an agreement that defined the responsibilities for joint use and development of the park chain for park, recreation, open space, flood protection and water conservation purposes.

Timeline: Master Plan developed in 1977; tri-party agreement entered in 1981; individual plans for each reach are still being developed.

Contact Info:

Name: Yves Zsutty
Organization: City of San Jose
Phone: 408-794-1302
Email:

Project Title: **Relationship Between Habitat and Biology in Freshwater Ecosystems**

Description: Research project evaluating utility of visual physical habitat assessment for predicting aquatic stream health.

Purpose: To determine whether qualitative habitat evaluation methods capture the physical features that are important to biological communities. Research study investigated the relationship between a widely used loca-scale, observer-based physical habitat assessment and the aquatic macroinvertebrate community at 84 sites on 14 streams running an urban-rural gradient in the San Jose, California metropolitan area.

Timeline: Dissertation published in spring 2003

Contact Info:

Name: Faith Kerns
Organization: University of California, Berkeley
Phone: 510-642-8322
Email: fkearns@nature.berkeley.edu

Project Title:	**Riparian Restoration Action Plan (RRAP)**
Description:	Framework for restoring riparian areas in the City of San Jose.
Purpose:	The purpose of the RRAP is to provide a comprehensive policy framework for actively restoring degraded portions of the 35 streams located within the City of San Jose. The plan describes current stream conditions, identifies priority areas for riparian restoration, and identifies effective, practical restoration activities to improve riparian corridors for purposes of water quality and wildlife habitat enhancement.
Timeline:	Draft Plan completed in November 2000
Contact Info:	

Name:	Patricia Colombe
Organization:	City of San Jose
Phone:	408-277-8578
Email:	Patricia.Colombe@sanjoseca.gov

Project Title:	**San Francisco Bay Area Stream Survey**
Description:	Database containing fish survey information on San Francsico Bay Area streams.
Purpose:	Fish surveys were conducted between 1992-1998 to determine status and trends of fish community assemblages in San Francisco Bay streams. Fish populations from many of the sampling locations were previously surveyed in 1981. The database was developed to provide information from the most recent survey to resource agencies and general public.
Timeline:	Fieldwork completed in 1998; database and preliminary study results released in 1999.
Contact Info:	

Name:	Robin Grossinger
Organization:	San Francisco Estuary Institute (SFEI)
Phone:	510-231-9539
Email:	robin@sfei.org

Project Title:	**San Jose Development Policies**
Description:	Development Policies for the City of San Jose
Purpose:	Identify relevant land use policies regarding the future character and quality of development. The 2020 General Plan represents the City of San Jose's assessment of the amount, type, and phasing of development needed to achieve the City's social, economic, and environmental goals. The Riparian Corridor Policy Study explores detail issues related to the General Plan policies which promote the preservation of riparian corridors.
Timeline:	
Contact Info:	

Name:	City of San Jose Planning Division
Organization:	City of San Jose
Phone:	408-277-4576
Email:	michele.campos@sanjoseca.gov

Project Title: **San Jose Historic Preservation Sites**

Description: Inventory of known and potential historic properties in City of San Jose

Purpose: The City of San Jose's Historic Resources Inventory identifies known and potential historic properties. It is also a resource for designating future City landmarks.

Timeline:

Contact Info:

Name: City of San Jose Planning Division
Organization: City of San Jose
Phone: 408-277-4576
Email: michele.campos@sanjoseca.gov

Project Title: **San Jose Parks and Recreation Information**

Description: Coyote Creek Trails

Purpose: Identify the natural and recreational opportunities relevant to Mid-Coyote Project.

Timeline:

Contact Info:

Name: City of San Jose Parks and Recreation
Organization: City of San Jose
Phone: 408-277-4661
Email: metha.sizemore@ci.sj.ca.us

Project Title: **Santa Clara Basin Watershed Management Initiative**

Description: Stakehold effort to conduct watershed assessments.

Purpose: Collaborative effort of representatives from business and industrial sectors; professional and trade organizations; civic, environmental, resource conservation and agricultural groups; regional and local public agencies; and the general public. This Collaborative's goal is to address all sources of pollution that threaten the waterbodies draining into the San Francisco Bay south of the Dumbarton Bridge. Their objective is to coordinate existing and future watershed activities to ensure that environmental protection efforts are addressed efficiently and cost-effectively. The SCBWMI's approach is to evaluate conditions in at least three watersheds that are representative of others in the Basin, and develop watershed management plans to alleviate stresses that prevent attainment of beneficial uses, as prescribed in the RWQCB's Basin Plan (RWQCB 1995) and improve aquatic community health. The first three watersheds to be evaluated are Upper Penitencia, Guadalupe, and San Francisquito.

Timeline: Volume 1 Characteristics Report completed in February 2001; Volume 2 Watershed Assessment Report completed in January 2004.

Contact Info:

Name: Alice Ringer
Organization: City of Palo Alto
Phone: 650-494-3819
Email: alice_ringer@city.palo-alto.ca.us

Project Title: **Santa Clara County Census Information**

Description: Population Census Data

Purpose: Compile population and demographic census data from Santa Clara County and City of San Jose.

Timeline: Ongoing

Contact Info:

Name: Patricia Perry
Organization: Association of Bay Area Governments (ABAG)
Phone: 510-464-7836
Email: patriciap@abag.ca.gov

Project Title: **Santa Clara County Parks Strategic Plan**

Description: Plan for Managing County Parks and Recreation

Purpose: The purposes of the Plan are:
1) To identify and prioritize outdoor recreational values and needs;
2) To strategically direct Department activities to provide for outdoor recreation needs in a way that respects fiscal, human, and natural resources; and
3) To identify how the Department's existing funding may be augmented to assure that the County's parks system continues to be an important contributor to the quality of life for County's residents.

Timeline:

Contact Info:

Name: SCCPRD staff
Organization: Santa Clara County Parks and Recreation Department
Phone: 408-355-2200
Email: parkinfo@mail.prk.co.santa-clara.ca.us

Project Title: **Santa Clara Valley Audubon Society Creek Mapping Project**

Description: The Santa Clara Valley Audubon Society (SCVAS) trained and coordinated over 40 volunteers in an effort to collect baseline data on the location (GPS), abundance, and characteristics of four invasive, non-native plants in four creeks in Santa Clara County.

Purpose: Project goal was to increase the local knowledge base regarding the prevalence of invasive, non-native species in riparian areas of Santa Clara County, thus facilitating future eradication efforts.

Project Objectives were to: 1) To accurately map four species of invasive plants (Arundo donax, Cortaderia selloana, Delairea odorata, Tamarisk sp.) in portions of four Santa Clara County watersheds (San Francisquito, Stevens, Coyote, and Uvas Creeks); 2)To provide an atmosphere and level of communications throughout the life of the project which leads to an increased likelihood that the water District and community organizations will work together to address the problems posed by these invasives species

Timeline: December 2003

Contact Info:

Name: Jennifer Peritz
Organization: Santa Clara Valley Audubon Society (SCVAS)
Phone: 408-252-3740
Email: programs@scvas.org

Project Title:	**SCVURPPP Multi-Year Receiving Waters Monitoring Plan**
Description:	The SCVURPPP developed a Multi-Year Receiving Waters Monitoring Plan (Multi-Year Plan) that identifies Program monitoring activities in Santa Clara Basin Watersheds over an eight-year period.
Purpose:	The Multi-Year Plan was developed to satisfy Provision C.7.b and C.9 of its NPDES Permit. Activities identified in the Multi-Year Plan are one aspect of the Program's environmental monitoring and assessment measures (EMMs), which are activities that entail the collection of environmental data through field studies. EMMs are coordinated at the local or regional level and typically fall into one of four categories: (1) screening/baseline level monitoring; (2) detailed investigations; (3) status and trends monitoring; and (4) special studies/control measure monitoring. EMMs are intended to: (1) assist the RWQCB characterize receiving water quality in urban watersheds consistent with the priorities of the Watershed Management Initiative and the Program; (2) identify where and what type of status and trend monitoring is appropriate, (3) recognize the need for site-specific water quality investigations to address questions that might arise during the conduct of the routine monitoring efforts; and (4) allow for determining if control measures are having the intended effect. The Multi-Year Plan contains the following information: watershed location (prioritized based on SCBWMI and Program assessment priorities), data type (chemical, biological, physical and trash), number and frequency of sampling events, fiscal years (eight years starting with FY 02-03 through FY09-10), rationale and lead agency. The information on data type utilizes a tiered monitoring approach discussed by the RWQCB staff in its Regional Monitoring and Assessment Strategy (RMAS) memo (Draft Monitoring Design in Regional Board-lead Pilot Watersheds, Spring 2001) dated February 8, 2001. The following monitoring categories were included within the memorandum: screening level, detailed investigation, and status and trends. The field and analytical methods used in the (Multi-Year Plan) are consistent with the Regional Board’s Surface Waters Ambient Monitoring Program (SWAMP) Quality Assurance Project Plan. A clear identification of the specific monitoring activities planned for each year will be provided as part of the Program’s Annual Monitoring Plan submitted every March 1. The Annual Monitoring and Assessment Plan includes the same type of information as the Multi-Year Plan. In FY 02-03, the Program completed monitoring activities in Coyote and Lower Penitencia Creek Watersheds. The selection of Lower Penitencia Creek and tributaries to Coyote Creek Watershed chosen for monitoring was consistent with the Program’s Watershed Management and Urban Runoff Management Integration Report (dated June 29, 2001). Results and analyses of that years monitoring activities are provided in a summary report that will be submitted with the Program's FY 02-03 Annual Report. In FY 03-04, the Program will conduct monitoring activities in Adobe and San Tomas Creek Watersheds.
Timeline:	Annual Monitoring Plan submitted in March of each year in the SCVURPPP Draft Work Plan; Watershed Monitoring and Assessment Summary Report submitted in September each year in the SCVURPPP Annual Report.

Contact Info:

Name:	Chris Sommers
Organization:	Eisenberg, Olivieri and Associates, Inc. (EOA, Inc.)
Phone:	510-832-2852
Email:	csommers@eoainc.com

Project Title: **SCVWD Hydraulic Analyses using HEC RAS and HEC2**

Description: HEC-RAS (Hydrologic Engineering Center River Analysis System) is an integrated system of software, designed for interactive use in a multi-tasking environment . It is developed and maintained by the USACE. This system is comprised of a graphical user interface (GUI), separate hydraulic analysis components, data storage and management capabilities, graphics and reporting facilities. HEC2 is an older version of HEC RAS used previously by SCVWD; data from HEC2 may be imported into HEC RAS.

Purpose: The HEC-RAS system contains three one-dimensional hydraulic analysis components for: (1) steady, gradually varied flow water surface profile computations; (2) unsteady flow simulation; and (3) sediment transport/movable boundary calculations resulting from scour and deposition over moderate time periods (typically years, although applications to single flood events are possible). This component is designed to simulate long-term trends of scour and deposition in a stream channel that might result from modifying the frequency and duration of the water discharge and stage, or modifying the channel geometry. This component can be used to evaluate deposition in reservoirs, design channel contractions required to maintain navigation depths, predict the influence of dredging on the rate of deposition, estimate maximum possible scour during large flood events, and evaluate sedimentation in fixed channels. All three components use a common geometric data representation and common geometric and hydraulic computation routines.

Timeline: Varies by cross-section and project area.

Contact Info:

Name: Liang Xu
Organization: Santa Clara Valley Water District (SCVWD)
Phone: 408-265-2607 x2780
Email: lxu@valleywater.org

Project Title: **SCVWD Wildlife Surveys**

Description: Results of wildlife surveys conducted by SCVWD staff

Purpose: Wildlife surveys were conducted to satisfy permit requirements for both stream maintenance and flood protection projects

Timeline: Varies by project

Contact Info:

Name: Doug Padley
Organization: Santa Clara Valley Water District (SCVWD)
Phone: 408-265-2607 x2725
Email: DPadley@valleywater.org

Project Title: **Sediment Removal Projects**

Description: Restore flood conveyance capacity in improved channels by removing accumulated sediment as part of the SCVWD's Stream Maitenance Program.

Purpose: Goal is to restore flood conveyance capacity in improved channels by removing accumulated sediment in accordance with the criteria, standards, or guidelines of the Federal Emergency Management Agency, the U.S. Army Crops of Engineers, the Natural Resources Conservation Service, or the District.

Objectives are to remove sediment from channels; characterize the physical and chemical properties of the sediments for proper removal and disposal actions; conduct water quality monitoring to verify compliance with the effluent and receiving water limitations by the RWQCB and implement general and site-specific BMPs associated with sediment removal projects.

Timeline: Projects completed annually.

Contact Info:

Name: Kate Slama
Organization: Santa Clara Valley Water District (SCVWD)
Phone: 408-265-2607 x2739
Email: kslama@valleywater.org

Project Title: **Stormwater Environmental Indicators Demonstration Project (SEIDP)**

Description: Precedent Setting: Evaluate EPA's Environmental Indicator methodology for assessing stormwater programs; Develop a guidance manual for applying this methodology in the arid West.

Purpose: Evaluate the usefulness of the Center for Watershed Protections' methodology using Environmental Indicators to Assess Stormwater Programs.

Timeline: Final report completed January 2001

Contact Info:

Name: Lucy Buchan
Organization: Santa Clara Valley Urban Runoff Pollution Prevention Program (SCVURPPP)
Phone: 650-637-1081
Email: buchan@eoainc.com

Project Title: **Stream gage operations and maintenance**

Description: Measurement and documentation of streamflow gages in the Santa Clara Basin

Purpose: Measure streamflow gage height and discharge at various creek locations in the Santa Clara Basin

Timeline: Varies by stream gage

Contact Info:

Name: Scott Akin
Organization: Santa Clara Valley Water District (SCVWD)
Phone: 408-265-2607 x2060
Email: SAkin@valleywater.org

Project Title: **Streamflow Augmentation and Wetland Creation using Recycled Water**

Description: Mitigation to enhance environment and minimize impacts to salt marsh ecosystem.

Purpose: As a result of NPDES permit mitigation requirements to enhance the environment and minimize impacts to salt marsh ecosystems from discharge of treated effluent (from the San Jose/Santa Clara Water Pollution Control Plant), the City of San Jose, in partnership with the SCVWD, has contracted Tetra Tech, Inc. and other subconsultants to assess the impacts of using recycled water to augment dry season streamflow in Coyote Creeks. In order to optimize the environmental benefits of introducing recycled water, the City of San Jose is designing and supporting implementation of two streamflow pilot augmentation projects and conducting feasibility studies for a wetland creation project. The City has monitored the creek for this project since 1997. Data collected include water quality, biological and physical habitat assessment

Timeline: Fieldwork conducted 1999-2001; water quality reports completed for each sampling year

Contact Info:

Name: Peter Schafer
Organization: City of San Jose
Phone: 408-945-5159
Email: Peter.Schafer@ci.sj.ca.us

Project Title: **Summer Dams Fisheries Study**

Description: Collect information on passage conditions, fish sampling results, and temperature and dissolved oxygen data

Purpose: Five-year study to determine stream use by chinook and steelhead in streams on which SCVWD constructs summer percolation dams

Timeline: Completed in 1994

Contact Info:

Name: Terry Neudorf
Organization: Santa Clara Valley Water District (SCVWD)
Phone: 408-265-2607 x2695
Email: tneuforf@valleywater.org

Project Title: **Temperature Water Quality Data from SCVWD**

Description: Water temperature database

Purpose: This data summarizes hourly termperature data in creeks in the Santa Clara Basin.

Timeline: Varies by location.

Contact Info:

Name: Eric Olson
Organization: Santa Clara Valley Water District (SCVWD)
Phone: 408-265-2607 x2465
Email:

Project Title: **Thompson Creek Sediment Yield**

Description: Sediment Rating Curve and Current Yield from Various Segments of Thompson Creek Watershed

Purpose: The purpose of this project is to construct the sediment rating curves and to compute the current sediment yield for Thompson watershed, measured in the creek at the boundaries of the undeveloped watershed, and along several points in the creek in the developed watershed.

The sediment rating curves are necessary to: 1) Quantify how much sediment is generated from which portion of the watershed, based on storms analyzed. This will answer questions such as the contribution of natural runoff versus from urban flow impacts at various storm sizes; 2) Determine how peak flow mitigation methods / basins installed at various locations can help reduce the sediment generation and runoff; 3) Determine appropriate locations for future peak flow detention and sedimentation basins; and 4)To develop an appropriate strategy to address the impact of additional flow.

A significant portion of this project is specialized field work to develop regression equations of flow versus suspended sediment and bed-load.

Timeline: Sampling was completed in August 2003.

Contact Info:

Name: Dipankar Sen
Organization: Santa Clara Valley Water District (SCVWD)
Phone: 408-265-2607 x3036
Email: dsen@valleywater.org

Project Title:	**Upper Penitencia Creek Flood Control Project**
Description:	Flood Protection Project
Purpose:	Project goals are to reduce damages by existing and potential flooding from the 100-year flood event in the Upper Penitencia Creek watershed. Project objectives are to conduct a Feasibility Study to provide information required to develop remedies to reduce flood damages. A sediment study was completed April 2003, which included a field reconnaissance to evaluate geomorphic character, an estimate of sediment yield, load, and transport capacity and an assessment of channel stability for upstream and downstream effects of the project. A bridge scour analysis was completed February 14, 2003. Future project work and responsible parties include: 1) Hydraulic Design and Risk-based Studies (USACE); 2) Social Impact Study (SCVWD); 3) Hazardous Materials Study (USACE); 4) Environmental Impact Statement and Report (USACE); 5) Fish and Wildlife Studies (USFWS); and Economic Studies (USACE)
Timeline:	Feasibility study in progress and scheduled for completion in June 2005.
Contact Info:	

Name:	George Fowler
Organization:	Santa Clara Valley Water District (SCVWD)
Phone:	408-265-2607 x2748
Email:	Gfowler@valleywater.org

Project Title:	**Vegetation Management Projects**
Description:	Management of vegetation near channels and canals as part of the SCVWD's Stream Maintenance Program.
Purpose:	Project goals are to maintain the ability of channels to function as flood protection facilities and canals to function for water conveyance. Other goals include protecting levees and concrete linings from roots, meeting local fire codes requiring the control of combustible weeds and grasses, providing visual clearance to inspect the condition of a facility, and providing access along maintenance roads. Project objectives are to manage vegetation near channels and canals; conduct water quality monitoring to determine if there are any environmental impacts from the District
Timeline:	Projects completed annually.
Contact Info:	

Name:	Kate Slama
Organization:	Santa Clara Valley Water District (SCVWD)
Phone:	408-265-2607 x2739
Email:	kslama@valleywater.org

Project Title:	**Vegetation Mapping of Upper Penitencia Creek**
Description:	Riparian vegetation maps for Upper Penitencia Creek
Purpose:	Inventory and document riparian vegetation community. Vegetation will be digitized using existing aerial photos; work in progress.
Timeline:	Projected to be complete in 2004 if funding is obtained.
Contact Info:	

Name:	Bill DeJager
Organization:	United States Army Corps of Engineers (USACE)
Phone:	415-977-8670
Email:	William.R.DeJager@spd02.usace.army.mil

Appendix C

Mid-Coyote Product Database Report

Note: Appendix C is sorted in ascending order by data product identification code. Gaps may occur in the sequence of these codes because the data compiled for the Mid-Coyote Project are a subset of a larger database (the SCVURPPP MDDB).

Mid-Coyote Products

3/31/2004

Santa Clara Valley
Urban Runoff
Pollution Prevention Program

Product ID: **6**

Product Title: **Upper Penitencia Creek Watershed Final Watershed Plan and Environmental Impact Statement/Report**

Project Name: Upper Penitencia Creek Flood Control Project

Data Description: flood control planning/regulatory compliance

Sampling Location: Upper Pentencia Creek, from mouth upstream to Dorel Drive

Sampling Frequency: Not applicable

Sampling Period: Not applicable

Product Format: Report

Product Format Note: Hardcopy

Product ID: **10**

Product Title: **Vertebrate Location Report for Reach 3 of Lower Silver Creek**

Project Name: Lake Cunningham Improvement Project (Formerly Silver-Thompson Flood Protection)

Data Description: fish community assemblage

Sampling Location: Downstream section of Reach 3 of Lower Silver Creek at Mckee Road.

Sampling Frequency: Electrofishing sampling was conducted July 14-16, 2003. Dip net sampling was conducted July 18 and 19, 2003.

Sampling Period: July 14 - 19, 2003

Product Format: Technical Memo

Product Format Note: Hardcopy

Product ID: **14**

Product Title: **Self-Monitoring Report for the 2000 Sediment Removal Project**

Project Name: Sediment Removal Projects

Data Description: sediment removal locations and volume, general water quality

Sampling Location: Lower Silver Creek, from South Babb Creek to Murtha Drive

Sampling Frequency: Daily samples were collected 100 feet upstream and downstream of active work site.

Sampling Period: October 2000

Product Format: Report

Product Format Note: Hardcopy

Product ID: **15**

Product Title: **Joint Stormwater Agency Project to Study Urban Sources of Mercury and PCBs**

Project Name: Joint Stormwater Agency Project to Study Urban Sources of Mercury and PCBs

Data Description: sediment chemistry

Sampling Location: Five locations in Coyote Creek watershed; three located in the lower mainstem drainage area. 19 locations in other Santa Clara Basin watersheds.

Sampling Frequency: Sampled at each location one time

Sampling Period: October 24 through November 3, 2000.

Product Format: Report

Product Format Note: Hardcopy

Product ID: **16**

Product Title: **Stormwater Environmental Indicators Demonstration Project Final Report**

Project Name: Stormwater Environmental Indicators Demonstration Project (SEIDP)

Data Description: fish community assemblage, salmonid fish population, benthic macroinvertebrate community assemblage, general water quality, sediment chemistry, instream fish cover, substrate condition, canopy cover, aquatic habitat, stream classification, watershed/catchment imperviousness, flood areas

Sampling Location: Coyote Creek, from Montague to Gilroy Hot Springs (above Coyote Reservoir)

Sampling Frequency: Sediment: 2 x (June & Oct.); Physical habitat: once (June/July); Temperature: continuous June-September; Fisheries: 3 x (April, June & Sept.); Macroinvertebrates: 2 x (April & June).

Sampling Period: 3/99 - 9/99

Product Format: Report

Product Format Note: Hardcopy

Product ID: **31**

Product Title: **Final Water Quality Monitoring Report for May - November 2000**

Project Name: Streamflow Augmentation and Wetland Creation using Recycled Water

Data Description: general water quality, water chemistry, pathogens, toxicity bioassays

Sampling Location: Eight stream locations along a 13-mile reach of Coyote Creek, between Hwy 237 and Hellyer County Park.

Sampling Frequency: Water quality parameters were measured once every month between May and November, except for water temperature which was monitored continuously between May 9 and September 18 2000.

Sampling Period: Monthly samples during dry season (May through Nov)

Product Format: Report

Product Format Note: Hardcopy

Product ID: **32**
Product Title: **Final Water Quality Monitoring Report for July - October 1999**
Project Name: Streamflow Augmentation and Wetland Creation using Recycled Water
Data Description: general water quality, water chemistry, pathogens, toxicity bioassays
Sampling Location: Seven stream locations along a 13-mile reach of Coyote Creek, between Hwy 237 and Hellyer County Park.
Sampling Frequency: Water quality parameters were measured once evey month between July and October, eccept for water temperature which was monitored continuously between July 13 and October 28 1999.
Sampling Period: Water quality sampling was conducted in four separate periods: July 27-28, August 23-24, September 28-29, and October 27-28 1999.
Product Format: Report
Product Format Note: Hardcopy

Product ID: **34**
Product Title: **Evaluation of First Flush Pollutant Loading and Implications for Water Resources and Urban Runoff Management**
Project Name: First Flush Monitoring Project
Data Description: water chemistry
Sampling Location: 25 storm drain outfalls sampled in Coyote and Guadalupe River watersheds
Sampling Frequency: First effective rainfall and every opportune rainfall event of the wet season
Sampling Period: May 1997 - April 2000
Product Format: Report
Product Format Note: Hardcopy

Product ID: **41**
Product Title: **Provenance Analysis of Chinook Salmon (Oncorhynchus tshawytscha) in the Santa Clara Valley Watershed**
Project Name: Genetic Relationships Among Steelhead and Rainbow Trout Populations in Tributaries to South San Francisco Bay (Phase II)
Data Description: salmonid fish population
Sampling Location: Coyote Creek; also sampled Guadalupe River, and Los Gatos Creek
Sampling Frequency: 459 fish samples from 17 populations
Sampling Period: 1994 - 2001
Product Format: Report
Product Format Note: Hardcopy

Product ID: **42**

Product Title: **Distribution, Ecology and Potential Impacts of the Chinese Mitten Crab (Eriocheir sinensis) in San Francisco Bay**

Project Name: Ecology and Impacts of the Chinese mitten crab (Eriocheir sinensis) in San Francisco Bay

Data Description: invasive species

Sampling Location: Nine monitoring sites on Coyote Creek were located from Dixon Landing to Coyote Ranch Road. Four monitoring sites were located in Upper Penitencia Creek. There were additional monitoring sites for all major watersheds in the SC Basin

Sampling Frequency: One time sampling for monitoring distribution.

Sampling Period: 1996 and 1999

Product Format: Report

Product Format Note: Hardcopy

Product ID: **49**

Product Title: **Coyote Creek Flood Control Project Reaches 1,2 & 3; Report of Mitigation and Monitoring Program 2001**

Project Name: Lower Coyote Creek Flood Control Project

Data Description: riparian and wetland wildlife species

Sampling Location: Reach 3 is from Hwy 237 to Montague Expwy; Reach 1 and 2 are below Hwy 237.

Sampling Frequency: Wildlife monitoring was conducted for 5 consecutive nights during the weeks of October 15-19, December 3-7 and December 10-14.

Sampling Period: Reach 3: Wildlife monitoring was conducted between October through December 2001; Vegetation and bird monitoring is planned for July 2002 - June 2003. No fisheries monitoring was conducted this year.

Product Format: Report

Product Format Note: Hardcopy

Product ID: **54**

Product Title: **Coyote Watershed Stream Stewardship Plan Final Report**

Project Name: Coyote Creek Stream Stewardship Plan (SSP)

Data Description: watershed assessment

Sampling Location: Coyote Creek watershed

Sampling Frequency: Not applicable

Sampling Period: Not applicable

Product Format: Report

Product Format Note: Electronic Copy (pdf)

Product ID: **70**

Product Title: **Santa Clara Watershed Existing and Future Percent Imperviousness - "sc_catchments"**

Project Name: Baseline Development for the HMP and the Regional Stormwater Management Program

Data Description: watershed/catchment imperviousness

Sampling Location: Santa Clara Basin

Sampling Frequency: Not applicable

Sampling Period: Database completed in Nov 2003

Product Format: GIS Coverage

Product Format Note: Electronic Copy (Arcview shapefile)

Product ID: **1089**

Product Title: **Report of Specimens Captured - Coyote Creek**

Project Name: CDFG Report of Specimens Captured - Coyote Creek

Data Description: fish community assemblage

Sampling Location: Coyote Creek, Upper Penitencia Creek and Lower Silver Creek (locations not reported)

Sampling Frequency: Not reported

Sampling Period: January 1989 and January 1994

Product Format: Report

Product Format Note: Hardcopy

Product ID: **1108**

Product Title: **California Native Plant Society's Electronic Index**

Project Name: California Native Plant Society's Electronic Index

Data Description: special status species

Sampling Location: Statewide

Sampling Frequency: Varies

Sampling Period: Varies

Product Format: Web Page

Product Format Note: Electronic Copy (html)

Product ID: **1111**

Product Title: **California Natural Diversity Data Base**

Project Name: California Natural Diversity Data Base

Data Description: special status species

Sampling Location: State of California

Sampling Frequency: Varies by survey

Sampling Period: Continuously updated

Product Format: Database, GIS Coverage

Product Format Note: Electronic Copy (unknown)

Product ID: **1200**

Product Title: **The Distribution and Abundance of Lotic Macroinvertebrates during Spring 1997 in Seven Streams of the Santa Clara Valley area, California**

Project Name: Factors Affecting the Distribution of Lotic Macroinvertebrates in an Urban Setting

Data Description: benthic macroinvertebrate community assemblage

Sampling Location: Eleven sites along Coyote Creek between Montague Expy and Anderson Dam and seven sites along Upper Penitencia Creek, between Flea Market and Alum Rock Park. 27 sites also sampled in the Guadalupe River Watershed

Sampling Frequency: Sampled one time.

Sampling Period: Spring 1997

Product Format: Report

Product Format Note: Hardcopy

Product ID: **1213**

Product Title: **Temperature Water Quality Data from SCVWD**

Project Name: Temperature Water Quality Data from SCVWD

Data Description: general water quality

Sampling Location: Selected locations in Coyote and Upper Penitencia Creeks

Sampling Frequency: Not reported

Sampling Period: 1996, 1997, 1998. Data dates vary by waterbody and stations within the waterbodies.

Product Format: Database

Product Format Note: Electronic Copy (unknown)

Product ID: **1353**

Product Title: **Summer dams fisheries study summary of field work, November 1990 - March 1992**

Project Name: Summer Dams Fisheries Study

Data Description: fish community assemblage, salmonid spawning and/or rearing quantity/quality, general water quality

Sampling Location: Upper Penitencia Creek, Coyote Creek at Ford Road Ponds

Sampling Frequency: Pond survey occurred once in September. Electrofishing occurred April/May and Sept/Oct time periods. Spawning survey occurred in November - March.

Sampling Period: Nov 1990 - March 1992

Product Format: Report

Product Format Note: Hardcopy

Product ID: **1356**

Product Title: **Summer dams fisheries study summary of field work, November 1992 - October 1993**

Project Name: Summer dams fisheries study summary of field work, November 1992-October 1993

Data Description: fish community assemblage, salmonid spawning and/or rearing quantity/quality, general water quality, fish barriers

Sampling Location: Upper Penitencia Creek

Sampling Frequency: Unknown

Sampling Period: November 1992 - October 1993

Product Format: (N/A)

Product Format Note:

Product ID: **1489**

Product Title: **The Impact of Recycled Water on Water Quality in Coyote Creek San Jose, California in 2001**

Project Name: Streamflow Augmentation and Wetland Creation using Recycled Water

Data Description: general water quality, water chemistry, pathogens, canopy cover, streamflow, channel bed and/or bank material

Sampling Location: Ten stream locations along 14 mile reach of Coyote Creek, between Municipal Golf Course and Metcalf Road.

Sampling Frequency: Samples were collected monthly. Most of the parameters were measured every month with the exception of organic compounds and most metals, which were sampled at two locations for fewer sampling events.

Sampling Period: Independent sampling events were conducted during dry season (May through Nov) by both San Jose State University and City of San Jose staff.

Product Format: Report, Table

Product Format Note: Hardcopy, Electronic Copy (Microsoft Excell)

Product ID: **1493**

Product Title: **2000 Benthic Macroinvertebrate Population Analysis: Coyote Creek**

Project Name: Streamflow Augmentation and Wetland Creation using Recycled Water

Data Description: benthic macroinvertebrate community assemblage

Sampling Location: Six stations were sampled in Coyote Creek (between Anderson Dam and Muni Golf Course) and three stations in Upper Penitencia Creek in 2000.

Sampling Frequency: Three benthic macroinvertebrate samples collected one time at each of the 9 stream stations in June, August, and October 2000.

Sampling Period: Sampling occurred in dry weather season 2000.

Product Format: Report

Product Format Note: Hardcopy

Product ID: **1494**

Product Title: **FAHCE Salmonid Habitat Survey Database**

Project Name: Fisheries and Aquatic Habitat Collaborative Effort (FAHCE)

Data Description: aquatic habitat type, instream fish cover, substrate condition, salmonid spawning and/or rearing quality/quantity, canopy cover, channel bed and/or bank material, stream classification, general water quality

Sampling Location: Continuous habitat survey along Coyote Creek from State Hwy 237 to Anderson Dam and along Upper Penitencia Creek from mouth to 1 mile downstream Cherry Flat Reservoir. Sampling also occurred in Guadalupe and Stevens Creek watersheds.

Sampling Frequency: Survey was a one-time event

Sampling Period: Survey was conducted in the summer of 1999;

Product Format: Database, GIS Coverage

Product Format Note: Electronic Copy (Microsoft Access, Arcview shapefile)

Product ID: **1495**

Product Title: **Summary and conclusion FAHCE TAC evaluation of the effects of Santa Clara Valley Water District facilities and operations on factors limiting habitat availability and quality for steelhead and chinook salmon.**

Project Name: Fisheries and Aquatic Habitat Collaborative Effort (FAHCE)

Data Description: general water quality, fish barriers, streamflow, salmonid fish population, fish community assemblage, salmonid spawning and/or rearing quality/quantity

Sampling Location: Coyote Creek from State Hwy 237 to Anderson Dam and along Upper Penitencia Creek from mouth to 1 mile downstream Cherry Flat Reservoir. Sampling also occurred in Guadalupe and Stevens Creek watersheds.

Sampling Frequency: Water temperature data collected continuously. Aquatic habitat survey conducted one time. Fish sampling occurred at various frequencies depending upon location.

Sampling Period: Water temperature data was collected in 1998-1999. Habitat mapping was conducted in the summer of 1999. Fish composition from migrant traps and electrofishing 1997-1999.

Product Format: Report

Product Format Note: Hardcopy

Product ID:	**1496**
Product Title:	**Inventory of fish passage impediments in Coyote Creek Watershed**
Project Name:	Fisheries and Aquatic Habitat Collaborative Effort (FAHCE)
Data Description:	fish barriers
Sampling Location:	Coyote Creek from Standish Dam upstream to Anderson Dam. Upper Penitencia Creek from mouth to Cherry Flat Reservoir.
Sampling Frequency:	Varied by location
Sampling Period:	Fish passage impediment information was gathered from a variety of sources, including the FAHCE Habitat Mapping survey in 1999.
Product Format:	GIS Coverage, Table
Product Format Note:	Electronic Copy (Arcview shapefile, pdf)

Product ID:	**1497**
Product Title:	**Assessment of Stream Ecosystem Functions for the Coyote Creek Watershed**
Project Name:	Coyote Creek Watershed Integrated Pilot Assessment
Data Description:	watershed assessment, stream classification
Sampling Location:	Coyote Creek, from Hwy 237 to Anderson Dam; Upper Penitencia Creek, from mouth to 1 mile downstream Cherry Flat Reservoir
Sampling Frequency:	Not applicable
Sampling Period:	Assessment of existing data, which was collected between 1997-1999.
Product Format:	Report
Product Format Note:	Hardcopy

Product ID:	**1499**
Product Title:	**Aquatic Resource Characterization of Western Mt. Hamilton Stream Fisheries Final Report**
Project Name:	Aquatic Resource Characterization of Western Mt. Hamilton Stream Fisheries
Data Description:	watershed assessment, historical fish community assemblage, invasive species
Sampling Location:	Coyote Creek, from mouth to Anderson Dam; Upper Penitencia, from mouth to Cherry Flat Reservoir; Alameda Creek from mouth to Calaveras Reservoir.
Sampling Frequency:	Not applicable
Sampling Period:	Not applicable
Product Format:	Report
Product Format Note:	Hardcopy

Product ID:	**1503**
Product Title:	**Draft Interim Report - Assessment of Lower Silver - Thompson Creek Subwatershed**
Project Name:	Hydromodification Management Plan (HMP)
Data Description:	channel cross-section/longitudinal profile, channel bed and/or bank material, channel deposition and erosion areas
Sampling Location:	Sampled 37 cross-sections in the Thompson (tributary to Lower Silver Creek above Lake Cunningham) and Yerba Buena Creeks (tributary to Thompson Creek).
Sampling Frequency:	Channel slope, channel geometry, bed and bank characterizations were measured one time at each of the cross-sections.
Sampling Period:	Field reconnaissance, channel cross-sections, bed and bank characterization for Thompson and Yerba Buena Creeks taken in Nov-Dec 2002.
Product Format:	Report
Product Format Note:	Hardcopy, Electronic Copy (pdf)

Product ID:	**1505**
Product Title:	**SCVURPPP FY 02-03 Watershed Monitoring and Assessment Summary Report**
Project Name:	SCVURPPP Multi-Year Receiving Waters Monitoring Plan
Data Description:	general water quality, water chemistry, sediment chemistry, pathogens, benthic macroinvertebrate community assemblage, visual physical habitat survey
Sampling Location:	Water chemistry taken at 3 locations in Upper Penitencia and Lower Silver Creek. Sediment chemistry taken at lowest site for both creeks listed above. Bioassessment conducted at 6 sites along Upper Penitencia.
Sampling Frequency:	Sediment samples (dry event). Toxicity testing (dry and wet event). General water quality and water samples (all events). Analysis for nutrients and anions and bacterial indicators (all sites); pesticides and metals (some sites). Bioassessment (spring)
Sampling Period:	Sediment and water samples, along with general water quality parameters, will be collected during the following hydrological cycles: wet season (January 14-15); spring (April 7-8); and dry season (September 18-19). Bioassessment (April-May) of 2002.
Product Format:	Report
Product Format Note:	Hardcopy

Product ID:	**1507**
Product Title:	**Draft Interim Report - Assessment of Lower Silver - Thompson Creek Subwatershed**
Project Name:	Thompson Creek Sediment Yield
Data Description:	sediment load and yield, streamflow
Sampling Location:	Six stream locations along Thompson Creek and Yerba Buena Creek.
Sampling Frequency:	Sediment transport was measured at six locations during several storm events in Dec-Jan 2003. Stream flow gage height was continuously monitored and recorded every 15 minutes at 4 locations in Thompson Creek starting in Jan 2003.
Sampling Period:	Sediment sampling and continuous flow monitoring for Thompson Creek taken between Dec 2002 and Aug 2003.
Product Format:	Report
Product Format Note:	Hardcopy

Product ID: **1518**

Product Title: **SCVWD Draft Self-Monitoring Report for the In-Stream Aquatic Herbicide Control Program for Northern Santa Clara County**

Project Name: Vegetation Management Projects

Data Description: water chemistry

Sampling Location: Lower Silver Creek, from Coyote to Norwood Creek.

Sampling Frequency: One time per event

Sampling Period: August 6 and 9, 2002

Product Format: Report

Product Format Note: Hardcopy

Product ID: **1520**

Product Title: **Distribution of invasive plant species for Coyote, San Francisquito and Stevens Creek Watersheds**

Project Name: Santa Clara Valley Audubon Society Creek Mapping Project

Data Description: invasive species

Sampling Location: Searsville Dam to the Bay, Stevens Creek Dam to the Bay, Anderson Dam to the Bay, and Uvas Dam to Hwy 101

Sampling Frequency: Varied depending on volunteer availability. Minimum 24 hours, maximum every two weeks.

Sampling Period: June 30, 2002-November30, 2003.

Product Format: GIS Coverage

Product Format Note: Electronic Copy (Arcview shapefile)

Product ID: **1533**

Product Title: **Lower Coyote Creek Flood Control Project Reaches 1-3: Annual Report of Mitigation and Monitoring Programs 1994-1995**

Project Name: Lower Coyote Creek Flood Control Project

Data Description: salmonid spawning and/or rearing quantity/quality

Sampling Location: Reach 3 is from Hwy 237 to Montague Expwy; Reach 1 and 2 are below Hwy 237. Established sites in Reach 3 to conduct monitoring of riparian vegetation, wildlife, and SRA starting in 1997.

Sampling Frequency: Spawning survey conducted monthly from Oct through April.

Sampling Period: Reach 3: Salmonid spawning surveys conducted in fall/winter 1995/96.

Product Format: Report

Product Format Note: Hardcopy

Product ID:	**1534**
Product Title:	**Lower Coyote Creek Flood Control Project Reaches 1-3: Report of Mitigation and Monitoring Programs 1996-1998**
Project Name:	Lower Coyote Creek Flood Control Project
Data Description:	riparian vegetation community; salmonid spawning and/or rearing quantity/quality; salmonid fish population; shaded riverine aquatic cover
Sampling Location:	Reach 3 is from Hwy 237 to Montague Expwy; Reach 1 and 2 are below Hwy 237; Fish trapping site occurred 150 m downstream of Montague.
Sampling Frequency:	Reach 3: Riparian vegetation monitoring conducted one time per year; photo documentation twice per year (spring and fall). Spawning survey conducted monthly from Oct through April. Fish traps operated 4 days and nights per week.
Sampling Period:	Reach 3: Riparian vegtation monitoring conducted September 1997 and 1998. Salmonid spawning survey in fall/winter 1997/1998. Fish trapping from April 23 - June 13, 1997.
Product Format:	Report
Product Format Note:	Hardcopy

Product ID:	**1537**
Product Title:	**Draft Self Monitoring Report for the San Francisco Bay Region Multi-Year Stream Maintenance Program 2002 Sediment Removal Projects**
Project Name:	Sediment Removal Projects
Data Description:	sediment removal locations and volume, general water quality
Sampling Location:	Two locations on Lower Silver Creek: 1) downstream King Road; and 2) from Cunningham Road to Thompson confluence.
Sampling Frequency:	Daily samples were collected 100 feet upstream and downstream of active work site.
Sampling Period:	August - October 2002.
Product Format:	Report
Product Format Note:	Hardcopy

Product ID:	**1538**
Product Title:	**2002 Sediment Removal Project - Analytical Data for Sediment Samples**
Project Name:	Sediment Removal Projects
Data Description:	sediment chemistry
Sampling Location:	Two locations on Lower Silver Creek: 1) downstream King Road; and 2) from Cunningham Road to Thompson confluence.
Sampling Frequency:	2 types of soil core samples: 1) Continuous: sample is taken every 4,000 cu yd of sediment estimated to be removed; and 2) discrete: sample is taken every 1,000 cu yd of sediment estimated to be removed. As many as 4 samples composited for lab analysis.
Sampling Period:	August - October 2002.
Product Format:	Table
Product Format Note:	Electronic Copy (Microsoft Excell)

Product ID:	**1539**
Product Title:	**Benthic Macroinvertebrate Survey on Coyote Creek**
Project Name:	Streamflow Augmentation and Wetland Creation using Recycled Water
Data Description:	benthic macroinvertebrate community assemblage
Sampling Location:	15 stations were sampled between Montague Expwy and Coyote Creek Park.
Sampling Frequency:	Three benthic macroinvertebrate samples were collected at each of the 15 stations for a total of 45 samples.
Sampling Period:	September 18 through October 3, 1998
Product Format:	Technical Memo
Product Format Note:	Hardcopy

Product ID:	**1540**
Product Title:	**Bentic Macroinvertebrate Population Analysis for 1998/1999 on Coyote Creek, Santa Clara County, Ca**
Project Name:	Streamflow Augmentation and Wetland Creation using Recycled Water
Data Description:	benthic macroinvertebrate community assemblage
Sampling Location:	15 stations were sampled between Montague Expwy and Coyote Creek Park.
Sampling Frequency:	Benthic macroinvertebrate samples were collected at each of the 15 stations in June, August and September 1999.
Sampling Period:	June through September 1999
Product Format:	Technical Memo
Product Format Note:	Hardcopy

Product ID:	**1541**
Product Title:	**Draft Coyote Flow Augmentation Pilot Project Phase 1 Fisheries Monitoring**
Project Name:	Streamflow Augmentation and Wetland Creation using Recycled Water
Data Description:	fish community assemblage
Sampling Location:	15 stations were sampled between Montague Expwy and Coyote Creek Park.
Sampling Frequency:	One time sampling event.
Sampling Period:	September 24 - October 3, 1998
Product Format:	Report
Product Format Note:	Hardcopy

Product ID:	**1542**
Product Title:	**Results of the Habitat Survey on Lower Coyote Creek**
Project Name:	Streamflow Augmentation and Wetland Creation using Recycled Water
Data Description:	aquatic habitat type, fish barriers, instream fish cover, salmonid spawning and/or rearing quantity/quality
Sampling Location:	Continuous survey of Coyote Creek, between Hwy 237 and Capital Expwy.
Sampling Frequency:	Four stream reaches were surveyed one time only.
Sampling Period:	November 18-21, 1998
Product Format:	Technical Memo
Product Format Note:	Hardcopy

Product ID:	**1543**
Product Title:	**Results of Year 2000 Fisheries Habitat Monitoring, Coyote Creek, San Jose, CA**
Project Name:	Streamflow Augmentation and Wetland Creation using Recycled Water
Data Description:	general water quality, channel cross-section/longitudinal profile, instream fish cover, streamflow, substrate condition
Sampling Location:	Four sampling locations along Coyote Creek between Dakota Crive and 500 feet upstream Yerba Buena Road
Sampling Frequency:	Four stream locations were surveyed one time only.
Sampling Period:	October 30-31, 2000
Product Format:	Technical Memo
Product Format Note:	Hardcopy

Product ID:	**1544**
Product Title:	**The Relationship Between Habitat and Biology in Freshwater Ecosystems**
Project Name:	Relationship Between Habitat and Biology in Freshwater Ecosystems
Data Description:	Visual physical habitat survey
Sampling Location:	Habitat assessments were conducted at 84 sites on 14 streams running an urban-rural gradient in the San Jose, California metropolitan area; eleven sites were in Coyote Creek and seven sites were in Upper Penitencia Creek.
Sampling Frequency:	Habitat assessments were conducted at each site one time.
Sampling Period:	June and July 1999
Product Format:	Report
Product Format Note:	Hardcopy

Product ID:	**1546**
Product Title:	**The Distribution and Abundance of the Chinese Mitten Crab (Eriocheir sinensis) in Santa Clara County, CA**
Project Name:	Ecology and Impacts of the Chinese mitten crab (Eriocheir sinensis) in San Francisco Bay
Data Description:	invasive species
Sampling Location:	Nine monitoring sites on Coyote Creek were located from Dixon Landing to Coyote Ranch Road. Four monitoring sites were located in Upper Penitencia Creek. There were additional monitoring sites for all major watersheds in the SC Basin.
Sampling Frequency:	One time sampling for monitoring distribution of crabs.
Sampling Period:	June and July 1996
Product Format:	Report
Product Format Note:	Hardcopy

Product ID: **1547**

Product Title: **Analysis of the proposed Coyote Creek solution option**

Project Name: Fisheries and Aquatic Habitat Collaborative Effort (FAHCE)

Data Description: general water quality, dam/diversion releases, streamflow, salmonid spawning and/or rearing quality/quantity, instream fish cover, substrate condition, canopy cover

Sampling Location: Coyote Creek, from Dixon Landing Road to Anderson Dam and Upper Penitencia Creek below Cherry Flat Reservoir

Sampling Frequency: Not Applicable

Sampling Period: Not Applicable

Product Format: Technical Memo

Product Format Note: Hardcopy

Product ID: **1548**

Product Title: **Preliminary assessment of fisheries and habitat benefits associated with resource agencies/NGO's conceptual response to SCVWD**

Project Name: Fisheries and Aquatic Habitat Collaborative Effort (FAHCE)

Data Description: watershed management

Sampling Location: Coyote Creek, from Dixon Landing Road to Anderson Dam and Upper Penitencia Creek below Cherry Flat Reservoir. Data collection and subsequent assessment of potential management actions was also conducted for Stevens Creek and Guadalupe River

Sampling Frequency: Not applicable

Sampling Period: Not applicable

Product Format: Technical Memo

Product Format Note: Hardcopy

Product ID: **1549**

Product Title: **Fisheries and Aquatic Habitat Collaborative Effort Conceptual Framework for Steelhead and Chinook Salmon Enhancement within Coyote Creek**

Project Name: Fisheries and Aquatic Habitat Collaborative Effort (FAHCE)

Data Description: watershed management

Sampling Location: Coyote Creek, from Dixon Landing Road to Anderson Dam and Upper Penitencia Creek below Cherry Flat Reservoir. Data collection and subsequent assessment of potential management actions was also conducted for Stevens Creek and Guadalupe River

Sampling Frequency: Not applicable

Sampling Period: Not applicable

Product Format: Technical Memo

Product Format Note: Hardcopy

Product ID: **1550**

Product Title: **Solution Option for Stevens Creek, Coyote Creek and Guadalupe River**

Project Name: Fisheries and Aquatic Habitat Collaborative Effort (FAHCE)

Data Description: watershed management

Sampling Location: Coyote Creek, from Dixon Landing Road to Anderson Dam and Upper Penitencia Creek below Cherry Flat Reservoir. Data collection and subsequent assessment of potential management actions was also conducted for Stevens Creek and Guadalupe River

Sampling Frequency: Not applicable

Sampling Period: Not applicable

Product Format: Technical Memo

Product Format Note: Hardcopy

Product ID: **1551**

Product Title: **Fisheries and Aquatic Habitat Collaborative Effort Summary Report**

Project Name: Fisheries and Aquatic Habitat Collaborative Effort (FAHCE)

Data Description: watershed management

Sampling Location: Coyote Creek, from Dixon Landing Road to Anderson Dam and Upper Penitencia Creek below Cherry Flat Reservoir. Data collection and subsequent assessment of potential management actions was also conducted for Stevens Creek and Guadalupe River

Sampling Frequency: Not applicable

Sampling Period: Not applicable

Product Format: Report

Product Format Note: Hardcopy

Product ID: **1553**

Product Title: **Joint Stormwater Agency Project to Study Urban Sources of Mercury, PCBs and Organochlorine Pesticides**

Project Name: Joint Stormwater Agency Project to Study Urban Sources of Mercury and PCBs

Data Description: sediment chemistry

Sampling Location: Five locations in Coyote Creek watershed. 15 locations in other Santa Clara Basin watersheds.

Sampling Frequency: Sampled at each location one time

Sampling Period: September 10 - October 5, 2001

Product Format: Report

Product Format Note: Hardcopy

Product ID: **1554**

Product Title: **Case Study Investigating Elevated Levels of PCBs in Storm Drain Sediments in San Jose, California**

Project Name: Joint Stormwater Agency Project to Study Urban Sources of Mercury and PCBs

Data Description: sediment chemistry

Sampling Location: Stormdrains at Leo Avenue and Burke Street, both are drainage areas to Coyote Creek near Kelley Park.

Sampling Frequency: Sampled at each location one time

Sampling Period: March 1, 2001 (City of San Jose) and November 13, 2001 (KLI, Inc)

Product Format: Report

Product Format Note: Hardcopy

Product ID:	**1555**
Product Title:	**Fish Relocation Operations Summary Report**
Project Name:	Lake Cunningham Improvement Project (Formerly Silver-Thompson Flood Protection)
Data Description:	fish community assemblage
Sampling Location:	Downstream section of Reach 3 of Lower Silver Creek at Mckee Road.
Sampling Frequency:	Electrofishing sampling was conducted May 30 and 31, 2003.
Sampling Period:	May 30-31, 2003
Product Format:	Technical Memo
Product Format Note:	Hardcopy

Product ID:	**1556**
Product Title:	**Lower Silver Creek Watershed Project, 1998 Plan Update Initial Study**
Project Name:	Lake Cunningham Improvement Project (Formerly Silver-Thompson Flood Protection)
Data Description:	flood control planning/regulatory compliance
Sampling Location:	Lower Silver Creek, from mouth to Lake Cunningham
Sampling Frequency:	Not applicable
Sampling Period:	Not applicable
Product Format:	Report
Product Format Note:	Hardcopy

Product ID:	**1557**
Product Title:	**Addendum to the Final Impact Report for the Lower Silver Creek Watershed Project**
Project Name:	Lake Cunningham Improvement Project (Formerly Silver-Thompson Flood Protection)
Data Description:	flood control planning/regulatory compliance
Sampling Location:	Lower Silver Creek, from mouth to Lake Cunningham
Sampling Frequency:	Not applicable
Sampling Period:	Not applicable
Product Format:	Report
Product Format Note:	Hardcopy

Product ID:	**1558**
Product Title:	**Lower Silver Creek Watershed Project, 1998 Plan Update Addendum to the Initial Study/Negative Declaration and Environmental Assessment/Finding of no Significant Impact**
Project Name:	Lake Cunningham Improvement Project (Formerly Silver-Thompson Flood Protection)
Data Description:	flood control planning/regulatory compliance
Sampling Location:	Lower Silver Creek, from mouth to Lake Cunningham
Sampling Frequency:	Not applicable
Sampling Period:	Not applicable
Product Format:	Report
Product Format Note:	Hardcopy

Product ID:	**1559**
Product Title:	**Coyote Creek Planning Study (San Francisco Bay to Montague Expressway)**
Project Name:	Lower Coyote Creek Flood Control Project
Data Description:	flood control planning/regulatory compliance
Sampling Location:	Coyote Creek, from San Francisco South Bay to Montague Expressway
Sampling Frequency:	Not applicable
Sampling Period:	Not applicable
Product Format:	Report
Product Format Note:	Hardcopy

Product ID:	**1560**
Product Title:	**Final Environmental Impact Statement Coyote Creek Flood Control**
Project Name:	Lower Coyote Creek Flood Control Project
Data Description:	flood control planning/regulatory compliance
Sampling Location:	Coyote Creek, from San Francisco South Bay to Montague Expressway
Sampling Frequency:	Not applicable
Sampling Period:	Not applicable
Product Format:	Report
Product Format Note:	Hardcopy

Product ID:	**1561**
Product Title:	**Upper Penitencia Creek Flood Control Study, Santa Clara County, California, Reconnaissance Report**
Project Name:	Upper Penitencia Creek Flood Control Project
Data Description:	flood control planning/regulatory compliance
Sampling Location:	Upper Pentencia Creek, from mouth upstream to Dorel Drive
Sampling Frequency:	Not applicable
Sampling Period:	Not applicable
Product Format:	Report
Product Format Note:	Hardcopy

Product ID:	**1562**
Product Title:	**Agreement Between the Department of the Army and the Santa Clara Valley Water District for the Feasibility Phase Study of the Upper Penitencia Creek**
Project Name:	Upper Penitencia Creek Flood Control Project
Data Description:	flood control planning/regulatory compliance
Sampling Location:	Upper Pentencia Creek, from mouth upstream to Dorel Drive
Sampling Frequency:	Not applicable
Sampling Period:	Not applicable
Product Format:	Report
Product Format Note:	Hardcopy

Product ID: **1563**

Product Title: **Upper Penitencia Creek Reconnaissance Level Sediment Assessment:Existing Conditions Summary**

Project Name: Upper Penitencia Creek Flood Control Project

Data Description: sediment load and yield, channel bed and/or bank material, channel deposition and erosion areas

Sampling Location: Upper Penitencia Creek, from mouth upstream to Tallant Ave

Sampling Frequency: Not reported

Sampling Period: Not reported

Product Format: Report

Product Format Note: Hardcopy

Product ID: **1564**

Product Title: **Upper Penitencia Creek Reconnaissance Level Sediment Assessment:Project Conditions Evaluation**

Project Name: Upper Penitencia Creek Flood Control Project

Data Description: sediment load and yield

Sampling Location: Upper Penitencia Creek, from mouth upstream to Tallant Ave

Sampling Frequency: Not reported

Sampling Period: Not reported

Product Format: Report

Product Format Note: Hardcopy

Product ID: **1565**

Product Title: **Upper Penitencia Creek Reconnaissance Level Sediment Assessment: Bridge Scour Analysis**

Project Name: Upper Penitencia Creek Flood Control Project

Data Description: channel cross-section/ longitudinal profile

Sampling Location: Upper Penitencia Creek, from mouth upstream to Tallant Ave

Sampling Frequency: Not reported

Sampling Period: Not reported

Product Format: Report

Product Format Note: Hardcopy

Product ID: **1566**

Product Title: **2000 Sediment Removal Project - Analytical Data for Sediment Samples**

Project Name: Sediment Removal Projects

Data Description: sediment chemistry

Sampling Location: Lower Silver Creek, from South Babb Creek to Murtha Drive

Sampling Frequency: 2 types of soil core samples: 1) Continuous: sample is taken every 4,000 cu yd of sediment estimated to be removed; and 2) discrete: sample is taken every 1,000 cu yd of sediment estimated to be removed. As many as 4 samples composited for lab analysis.

Sampling Period: October 2000

Product Format: Table

Product Format Note: Hardcopy

Product ID: **1567**

Product Title: **Historical Distribution and Current Status of Steelhead (Oncorhynchus mykiss), Coho Salmon (O. kisutch), and Chinook Salmon (O. tshawytscha) in Streams of the San Francisco Bay Estuary, California**

Project Name: Historical Distribution and Current Status of Anadramous Fishes in Streams of the San Francisco Bay Estuary, California

Data Description: salmonid fish population, historical fish community assemblage

Sampling Location: San Francisco Bay streams with anadramous fish populations were assessed, including Coyote and Upper Penitencia Creeks.

Sampling Frequency: Not applicable

Sampling Period: Not applicable

Product Format: Report

Product Format Note: Hardcopy

Product ID: **1568**

Product Title: **Bay Area Stream Fishes (BASF) Version 1.0**

Project Name: San Francisco Bay Area Stream Survey

Data Description: fish community assemblage

Sampling Location: Coyote Creek was sampled, along with 78 other creeks in the SF Bay.

Sampling Frequency: 277 surveys occurred at 263 stations on 79 creeks

Sampling Period: April 1992 - July 1998

Product Format: Database, Table

Product Format Note: Electronic Copy (Microsoft Access, pdf file)

Product ID: **1569**

Product Title: **San Jose Creek Vegetation Buffer - "hrgcity"**

Project Name: GIS Databases

Data Description: riparian vegetation community, riparian buffer width and contiguity, natural resources

Sampling Location: Streams within City of San Jose jurisdiction

Sampling Frequency: Not reported

Sampling Period: Digitized in 1996; mapped in 1992; based on 1984 and 1990 aerial photographs

Product Format: GIS Coverage

Product Format Note: Electronic Copy (Arcview shapefile)

Product ID: **1570**

Product Title: **Mean Annual Precipitation - "rainfall"**

Project Name: GIS Databases

Data Description: precipitation

Sampling Location: Santa Clara County Basin

Sampling Frequency: Not reported

Sampling Period: It was digitized in 1996 from a paper map created in October 1989.

Product Format: GIS Coverage

Product Format Note: Electronic Copy (Arcview shapefile)

Product ID: **1571**

Product Title: **Watershed Management Plan, Volume 1, Watershed Characteristics Report**

Project Name: Santa Clara Basin Watershed Management Initiative

Data Description: topography and climate, existing and projected land use

Sampling Location: Santa Clara Basin watersheds

Sampling Frequency: Not applicable

Sampling Period: Not applicable

Product Format: Report

Product Format Note: Hardcopy

Product ID: **1572**

Product Title: **Riparian Restoration Action Plan - Final Draft**

Project Name: Riparian Restoration Action Plan (RRAP)

Data Description: riparian vegetation community, channel modification type and location

Sampling Location: Action Plan includes entire City. Pilot project was implementated on a quarter acre section of Coyote Creek located along Selma Olinder Park (formerly called William Street Park).

Sampling Frequency: Monitoring efforts not reported

Sampling Period: Pilot project was completed in summer of 2001, with monitoring and maintenance activities planned through 2002.

Product Format: Report

Product Format Note: Hardcopy

Product ID: **1575**

Product Title: **Walk San Jose Coyote Creek Proposed Trail**

Project Name: San Jose Parks and Recreation Information

Data Description: natural resources, recreation resources

Sampling Location: Coyote Creek, from Watson Park to Kelley Park

Sampling Frequency: Not applicable

Sampling Period: Not applicable

Product Format: Map

Product Format Note: Electronic Copy (gif)

Product ID: **1576**

Product Title: **Coyote Creek Trail Project**

Project Name: San Jose Parks and Recreation Information

Data Description: natural resources, recreation resources

Sampling Location: Coyote Creek, Watson Park to Hellyer Park

Sampling Frequency: Not applicable

Sampling Period: Date of map development not reported

Product Format: Map

Product Format Note: Electronic Copy (pdf)

Product ID:	**1577**
Product Title:	**Historic Resources Inventory**
Project Name:	San Jose Historic Preservation Sites
Data Description:	cultural resources
Sampling Location:	City of San Jose
Sampling Frequency:	Not applicable
Sampling Period:	Historical resources updated in December, 2003
Product Format:	Table, Map
Product Format Note:	Electronic Copy (pdf, tif)

Product ID:	**1578**
Product Title:	**Santa Clara County Assessors Parcel Database - "parcels"**
Project Name:	GIS Databases
Data Description:	existing and projected land use, type of agricultural use, location of schools and airports, location of residences and commercial properties,
Sampling Location:	Santa Clara County
Sampling Frequency:	Updated annually
Sampling Period:	1996 - 2003
Product Format:	GIS Coverage
Product Format Note:	Electronic Copy (Arcview shapefile)

Product ID:	**1579**
Product Title:	**City of San Jose Zoning Maps**
Project Name:	San Jose Development Policies
Data Description:	areas zoned for agricultural use
Sampling Location:	City of San Jose
Sampling Frequency:	Periodic updates
Sampling Period:	Updated Oct 2003 - Jan 2004
Product Format:	Map
Product Format Note:	Electronic Copy (pdf)

Product ID:	**1580**
Product Title:	**City of San Jose General Plan Maps**
Project Name:	San Jose Development Policies
Data Description:	existing and projected land use, existing roads and bridges
Sampling Location:	City of San Jose
Sampling Frequency:	Periodic updates
Sampling Period:	Update May - Sept 2003
Product Format:	Map
Product Format Note:	Electronic Copy (pdf)

Product ID: **1581**

Product Title: **National Hierarchical Framework of Ecological Units - "ecoregions"**

Project Name: GIS Databases

Data Description: topography and climate, geology, soils

Sampling Location: Nationwide; includes Santa Clara County

Sampling Frequency: Not reported

Sampling Period: Not reported

Product Format: GIS Coverage, Web Page

Product Format Note: Electronic Copy (Arcview shapefile, html)

Product ID: **1582**

Product Title: **Coyote Creek Trail New and Future Developments**

Project Name: San Jose Parks and Recreation Information

Data Description: natural resources, recreation resources

Sampling Location: Coyote Creek, Watson Park to Hellyer park

Sampling Frequency: Not applicable

Sampling Period: Not applicable

Product Format: Web Page

Product Format Note: Electronic Copy (html)

Product ID: **1583**

Product Title: **Santa Clara Parks - "parks"**

Project Name: GIS Databases

Data Description: natural resources, recreation resources

Sampling Location: San Clara County

Sampling Frequency: Not reported

Sampling Period: Current version 1996

Product Format: GIS Coverage

Product Format Note: Electronic Copy (Arcview shapefile)

Product ID: **1584**

Product Title: **Upper Penitencia Creek Riparian Vegetation Map**

Project Name: Vegetation Mapping of Upper Penitencia Creek

Data Description: riparian vegetation community

Sampling Location: Upper Penitencia Creek, from mouth to Dorel Drive

Sampling Frequency: Not reported.

Sampling Period: Currently being developed; projected to be complete in February 2004.

Product Format: GIS Coverage

Product Format Note: Electronic Copy (Arcview shapefile)

Product ID: **1585**

Product Title: **Wetland Delineations in San Francisco Bay - "ecoatlas"**

Project Name: GIS Databases

Data Description: wetland delineation

Sampling Location: San Francisco Bay area

Sampling Frequency: Variable by data source

Sampling Period: Maps developed in 1998 using existing data sources

Product Format: GIS Coverage

Product Format Note: Electronic Copy (ArcInfo, Arcview and Grid files)

Product ID: **1586**

Product Title: **Memoranda Summarizing SCVWD Wildlife Survey Results**

Project Name: SCVWD Wildlife Surveys

Data Description: riparian and wetland wildlife species

Sampling Location: Lower Silver Creek

Sampling Frequency: Varied by survey; see individual survey description.

Sampling Period: Surveys conduct between May and August 1999

Product Format: Technical Memo

Product Format Note: Hardcopy

Product ID: **1587**

Product Title: **Quaternary Geology in the Santa Clara Valley - "sc_geo"**

Project Name: GIS Databases

Data Description: geology

Sampling Location: Santa Clara Basin

Sampling Frequency: Not reported

Sampling Period: Developed in 1994

Product Format: GIS Coverage

Product Format Note: Electronic Copy (Arcview shapefile)

Product ID: **1588**

Product Title: **Distribution of Landslides and Earth Flows - "landslide"**

Project Name: GIS Databases

Data Description: landslides

Sampling Location: San Francisco Bay area

Sampling Frequency: Not reported

Sampling Period: Developed in 1997

Product Format: GIS Coverage, Report

Product Format Note: Electronic Copy (Arcview shapefile, Microsoft word)

Product ID: **1589**

Product Title: **Soil Type - "soilgrp2"**

Project Name: GIS Databases

Data Description: soils

Sampling Location: Santa Clara County

Sampling Frequency: Not reported

Sampling Period: Not reported

Product Format: GIS Coverage

Product Format Note: Electronic Copy (Arcview shapefile)

Product ID: **1590**

Product Title: **Soil Infiltration Rate - "soilgrp1"**

Project Name: GIS Databases

Data Description: soils

Sampling Location: Santa Clara County

Sampling Frequency: Not reported

Sampling Period: Not reported

Product Format: GIS Coverage

Product Format Note: Electronic Copy (Arcview shapefile)

Product ID: **1591**

Product Title: **SCVWD Flooding - "flood"**

Project Name: GIS Databases

Data Description: flood areas

Sampling Location: Santa Clara Basin

Sampling Frequency: Not reported

Sampling Period: Date of development not reported

Product Format: GIS Coverage

Product Format Note: Electronic Copy (Arcview shapefile)

Product ID: **1592**

Product Title: **Historical Flooding - "histfld"**

Project Name: GIS Databases

Data Description: flood areas

Sampling Location: Santa Clara Basin

Sampling Frequency: Not reported

Sampling Period: Developed Nov 1997

Product Format: GIS Coverage

Product Format Note: Electronic Copy (Arcview shapefile)

Product ID: **1593**

Product Title: **Depth to First Groundwater - "dp1stwtr"**

Project Name: GIS Databases

Data Description: depth to first groundwater

Sampling Location: Santa Clara Basin

Sampling Frequency: Not available

Sampling Period: Not available

Product Format: GIS Coverage

Product Format Note: Electronic Copy (Arcview shapefile)

Product ID: **1594**

Product Title: **Groundwater Recharge Area - 'gen_geo"**

Project Name: GIS Databases

Data Description: groundwater recharge area

Sampling Location: Santa Clara Basin

Sampling Frequency: Not available

Sampling Period: Not available

Product Format: GIS Coverage

Product Format Note: Electronic Copy (Arcview shapefile)

Product ID: **1595**

Product Title: **SCVWD Creeks - "crks704"**

Project Name: GIS Databases

Data Description: channel modification type and location, fish community assemblage

Sampling Location: Santa Clara Basin

Sampling Frequency: Currently being revised by SCVWD

Sampling Period: July 1996

Product Format: GIS Coverage

Product Format Note: Electronic Copy (Arcview shapefile)

Product ID: **1596**

Product Title: **HEC RAS and HEC2 Data**

Project Name: SCVWD Hydraulic Analyses using HEC RAS and HEC2

Data Description: channel cross-section/longitudinal profile

Sampling Location: Standish Dam to Brokaw; River station 57,100 to d/s of hwy 237; Hwy 101 to 280; Hwy 280 to Tully Rd; Coyote Reaches 2B, 3A, 3B, 3E

Sampling Frequency: Varies

Sampling Period: Most files last edited in 1992. Those designated by Reach number last edited in 1995.

Product Format: HEC Data

Product Format Note: Electronic Copy (txt)

Product ID: **1597**
Product Title: **Existing and Historic Mines in Santa Clara County - "mines"**
Project Name: GIS Databases
Data Description: historic/existing mines
Sampling Location: Santa Clara County
Sampling Frequency: Not available
Sampling Period: Last updated in 1998
Product Format: GIS Coverage
Product Format Note: Electronic Copy (Arcview shapefile)

Product ID: **1598**
Product Title: **Stormdrains - "strmdrns"**
Project Name: GIS Databases
Data Description: public and private utilities
Sampling Location: Santa Clara Basin
Sampling Frequency: Not reported
Sampling Period: April 1998
Product Format: GIS Coverage
Product Format Note: Electronic Copy (Arcview shapefile)

Product ID: **1599**
Product Title: **Watershed Management Plan, Volume 2, Watershed Assessment Report**
Project Name: Santa Clara Basin Watershed Management Initiative
Data Description: watershed assessment, stream classification
Sampling Location: Upper Penitencia Creek, Guadalupe River, San Francisquito Creek
Sampling Frequency: Not applicable
Sampling Period: Not applicable
Product Format: Report
Product Format Note: Electronic Copy (pdf, Microsoft word)

Product ID: **1600**
Product Title: **City of San Jose General Plan**
Project Name: San Jose Development Policies
Data Description: general plans
Sampling Location: City of San Jose
Sampling Frequency: Periodic updates
Sampling Period: Approved August 16, 1994; most recent revision in December 7, 1999
Product Format: Report
Product Format Note: Hardcopy

Product ID:	**1601**
Product Title:	**Riparian Corridor Policy Study**
Project Name:	San Jose Development Policies
Data Description:	general plans
Sampling Location:	City of San Jose
Sampling Frequency:	Not applicable
Sampling Period:	Approved May 17, 1994; revised March 1999
Product Format:	Report
Product Format Note:	Hardcopy

Product ID:	**1602**
Product Title:	**Year Two Case Study Investigating Elevated Levels of PCBs in Storm Drain Sediments in San Jose, California**
Project Name:	Joint Stormwater Agency Project to Study Urban Sources of Mercury and PCBs
Data Description:	sediment chemistry
Sampling Location:	Leo Avenue, which drains into Coyote Creek near Kelley Park
Sampling Frequency:	Sampled at each location one time
Sampling Period:	Nov 2002
Product Format:	Report
Product Format Note:	Hardcopy

Product ID:	**1603**
Product Title:	**Stream Maintenance Program 2001 Sediment Removal Sites - "smp2001sedremoval"**
Project Name:	Sediment Removal Projects
Data Description:	sediment removal locations and volume
Sampling Location:	Selected locations in Upper Penitencia and Lower Silver Creeks
Sampling Frequency:	See description in Self-Monitoring Report
Sampling Period:	Sediment removal dates are not reported
Product Format:	GIS Coverage
Product Format Note:	Electronic Copy (Arcview shapefile)

Product ID:	**1605**
Product Title:	**Strategic Plan Santa Clara County Parks and Recreation System**
Project Name:	Santa Clara County Parks Strategic Plan
Data Description:	county parks master plan, recreation resources
Sampling Location:	Santa Clara County Parks
Sampling Frequency:	Not reported
Sampling Period:	Plan developed August 5, 2003
Product Format:	Report
Product Format Note:	Electronic Copy (pdf)

Product ID: **1606**

Product Title: **Countywide Trails Master Plan Update**

Project Name: Santa Clara County Parks Strategic Plan

Data Description: county parks master plan, recreation resources

Sampling Location: Santa Clara County Parks

Sampling Frequency: Not reported

Sampling Period: Updated in 1995

Product Format: Report

Product Format Note: Electronic Copy (pdf)

Product ID: **1607**

Product Title: **Countywide Trails Plan**

Project Name: Santa Clara County Parks Strategic Plan

Data Description: recreation resources

Sampling Location: Santa Clara County Parks

Sampling Frequency: Not reported

Sampling Period: Nov 1995

Product Format: Map

Product Format Note: Electronic Copy (pdf)

Product ID: **1608**

Product Title: **City of San Jose Population Census Data**

Project Name: Santa Clara County Census Information

Data Description: population census data

Sampling Location: Nationwide; City of San Jose included here

Sampling Frequency: Updated every 10 years

Sampling Period: 2000 and 2002 (estimated)

Product Format: Web Page

Product Format Note: Electronic Copy (html)

Product ID: **1609**

Product Title: **Silicon Valley Toxics Coalition Website**

Project Name: Hazardous Waste Site Information

Data Description: location, constituents, and status of hazardous waste sites

Sampling Location: Santa Clara Basin

Sampling Frequency: Not reported

Sampling Period: Not reported

Product Format: Web Page

Product Format Note: Electronic Copy (html)

Product ID: **1610**
Product Title: **EPA Superfund Information System Website**
Project Name: Hazardous Waste Site Information
Data Description: location, constituents, and status of hazardous waste sites
Sampling Location: Nationwide
Sampling Frequency: Not applicable
Sampling Period: Not applicable
Product Format: Web Page
Product Format Note: Electronic Copy (html)

Product ID: **1611**
Product Title: **EPA National Priorities List Superfund Sites in Santa Clara County**
Project Name: Hazardous Waste Site Information
Data Description: location, constituents, and status of hazardous waste sites
Sampling Location: Santa Clara County
Sampling Frequency: Not applicable
Sampling Period: Not applicable
Product Format: Table
Product Format Note: Electronic Copy (html)

Product ID: **1612**
Product Title: **Summer dams fisheries study summary of field work, November 1992 - October 1993**
Project Name: Summer Dams Fisheries Study
Data Description: fish community assemblage, salmonid spawning and/or rearing quantity/quality, general water quality, fish barriers
Sampling Location: Upper Penitencia Creek, Coyote Creek at Ford Road Ponds
Sampling Frequency: Unknown
Sampling Period: Nov 1992 - Oct 1993
Product Format: Report
Product Format Note: Hardcopy

Product ID: **1613**
Product Title: **Penitencia Creek Park Chain Reach 2 Park Master Plan Narrative Report**
Project Name: Penitencia Creek Master Plan
Data Description: recreation resources
Sampling Location: Upper Penitencia Creek; reach 2 is located between Piedmont Rd and Noble Ave
Sampling Frequency: Not applicable
Sampling Period: Planning process began in July 2000 and completed in fall 2001.
Product Format: Report
Product Format Note: Hardcopy

Product ID: **1614**
Product Title: **Maybury Park/Penitencia Creek Park Chain Reach 6 Master Plan**
Project Name: Penitencia Creek Master Plan
Data Description: recreation resources
Sampling Location: Upper Penitencia Creek; Reach 6 is located between King Rd and North Jackson Ave
Sampling Frequency: Not applicable
Sampling Period: Master Plan approved by City of San Jose; implementation is pending outcome of flood control design.
Product Format: Report
Product Format Note: Hardcopy

Product ID: **1615**
Product Title: **USGS Gage No 11172175 at Coyote Creek Hwy 237**
Project Name: Stream gage operations and maintenance
Data Description: streamflow
Sampling Location: Coyote Creek at Hwy 237
Sampling Frequency: Continuous
Sampling Period: Stream gage in operation since 1999.
Product Format: Web Page
Product Format Note: Electronic Copy (html)

Product ID: **1616**
Product Title: **Memoranda Summarizing SCVWD Red-legged Frog Surveys**
Project Name: SCVWD Wildlife Surveys
Data Description: special status species
Sampling Location: Upper Penitencia Creek; various locations between Mabury Ave and Nobel Diversion Dam
Sampling Frequency: Varies by survey
Sampling Period: Surveys conducted between May 1997 and August 2001
Product Format: Technical Memo
Product Format Note: Hardcopy

Product ID: **1617**
Product Title: **Memoranda Summarizing SCVWD Burrowing Owl Surveys**
Project Name: SCVWD Wildlife Surveys
Data Description: special status species
Sampling Location: Upper Penitencia Creek; Foxridge to Stonecrest and upstream of I-680
Sampling Frequency: One time survey
Sampling Period: April 4, 2002
Product Format: Technical Memo
Product Format Note: Hardcopy

Appendix D

Index Table of Products Delivered to SCVWD

Appendix D. List of Project and Products describing the sources and format of data that have been compiled and submitted as part of Task 2 for the Mid-Coyote Project.

Project Name	Product Title	Document Type and Format	Location
1. Aquatic Resource Characterization of Western Mt. Hamilton Stream Fisheries	Aquatic Resource Characterization of Western Mt. Hamilton Stream Fisheries Final Report	Report (Hard copy)	File Box
2. Baseline Development for the HMP and the Regional Stormwater Management Program	Santa Clara Watershed Existing and Future Percent Imperviousness - "sc_catchments"	GIS Coverage	CD-Rom
3. California Native Plant Society's (CNPS) Electronic Index	California Native Plant Society's electronic index	Web-based database	Website
4. California Natural Diversity Data Base	California Natural Diversity Data Base	GIS Coverage, Database	Proprietary (CDFG)
5. CDFG Report of Specimens Captured - Coyote Creek	Report of Specimens Captured - Coyote Creek	Report (Hard copy)	WMI Repository
6. Coyote Creek Stream Stewardship Plan (SSP)	Coyote Watershed Stream Stewardship Plan Final Report	Report (Electronic)	CD-Rom
7. Coyote Creek Watershed Integrated Pilot Assessment	Assessment of Stream Ecosystem Functions for the Coyote Creek Watershed	Report (Hard copy)	File Box
8. Ecology and Impacts of the Chinese mitten crab (Eriocheir sinensis) in San Francisco Bay	1. Distribution, Ecology and Potential Impacts of the Chinese Mitten Crab (Eriocheir sinensis) in San Francisco Bay	Report (Hard copy)	File Box
	2. The Distribution and Abundance of the Chinese Mitten Crab (Eriocheir sinensis) in Santa Clara County, CA	Report (Hard copy)	File Box
9. Factors Affecting the Distribution of Lotic Macroinvertebrates in an Urban Setting	The Distribution and Abundance of Lotic Macroinvertebrates during Spring 1997 in Seven Streams of the Santa Clara Valley area, California	Report (Hard copy)	File Box
10. First Flush Monitoring Project	Evaluation of First Flush Pollutant Loading and Implications for Water Resources and Urban Runoff Management	Report (Hard copy)	File Box

Project Name	**Product Title**	**Document Type and Format**	**Location**
11. Fisheries and Aquatic Habitat Collaborative Effort (FAHCE)	1. Analysis of the proposed Coyote Creek solution option	Technical Memo (Hard copy)	File Box
	2. FAHCE Salmonid Habitat Survey Database	GIS Coverage, Database	CD-Rom
	3. Fisheries and Aquatic Habitat Collaborative Effort Conceptual Framework for Steelhead and Chinook Salmon Enhancement within Coyote Creek	Technical Memo (Hard copy)	File Box
	4. Fisheries and Aquatic Habitat Collaborative Effort Summary Report	Report (Hard copy)	File Box
	5. Inventory of fish passage impediments in Coyote Creek Watershed	GIS Coverage, Table	CD-Rom
	6. Preliminary assessment of fisheries and habitat benefits associated with resource agencies/NGO's conceptual response to SCVWD	Technical Memo (Hard copy)	File Box
	7. Solution Option for Stevens Creek, Coyote Creek and Guadalupe River	Technical Memo (Hard copy)	File Box
	8. Summary and conclusion FAHCE TAC evaluation of the effects of Santa Clara Valley Water District facilities and operations on factors limiting habitat availability and quality for steelhead and chinook salmon.	Report (Hard copy)	File Box
12. Genetic Relationships Among Steelhead and Rainbow Trout Populations in Tributaries to South San Francisco Bay (Phase II)	9. Provenance Analysis of Chinook Salmon (Oncorhynchus tshawytscha) in the Santa Clara Valley Watershed.	Report (Hard copy)	File Box

Project Name	Product Title	Document Type and Format	Location
13. GIS Databases	1. Depth to First Groundwater - "dp1stwtr"	GIS Coverage	CD-Rom
	2. Distribution of Landslides and Earth Flows - "landslide"	GIS Coverage	CD-Rom
	3. Existing and Historic Mines in Santa Clara County - "mines"	GIS Coverage	CD-Rom
	4. Groundwater Recharge Area - 'gen_geo"	GIS Coverage	CD-Rom
	5. Historical Flooding - "histfld"	GIS Coverage	CD-Rom
	6. Mean Annual Precipitation - "rainfall"	GIS Coverage	CD-Rom
	7. National Hierarchical Framework of Ecological Units - "ecoregions"	GIS Coverage	CD-Rom
	8. Quaternary Geology in the Santa Clara Valley - "sc_geo"	GIS Coverage	CD-Rom
	9. San Jose Creek Vegetation Buffer - "hrgcity"	GIS Coverage	CD-Rom
	10. Santa Clara County Assessors Parcel Database - "parcels"	GIS Coverage	Proprietary (SCVWD)
	11. Santa Clara Parks - "parks"	GIS Coverage	CD-Rom
	12. SCVWD Creeks - "crks704"	GIS Coverage	CD-Rom
	13. SCVWD Flooding - "flood"	GIS Coverage	CD-Rom
	14. Soil Infiltration Rate - "soilgrp1"	GIS Coverage	CD-Rom
	15. Soil Type - "soilgrp2"	GIS Coverage	CD-Rom
	16. Stormdrains - "strmdrns"	GIS Coverage	CD-Rom
	17. Wetland Delineations in San Francisco Bay - "ecoatlas"	GIS Coverage	CD-Rom
14. Hazardous Waste Site Information	1. Silicon Valley Toxics Coalition Website	Web-base maps	Website
	2. EPA Superfund Information System Website a. CERLIS Database b. National Priority List Info	Webpage (Hardcopy)	File Box

Project Name	Product Title	Document Type and Format	Location
15. Historical Distribution and Current Status of Anadramous Fishes in Streams of the San Francisco Bay Estuary, California	Historical Distribution and Current Status of Steelhead (Oncorhynchus mykiss), Coho Salmon (O. kisutch), and Chinook Salmon (O. tshawytscha) in Streams of the San Francisco Bay Estuary, California	Report (Hard copy)	File Box
16. Hydromodification Management Plan (HMP)	Draft Interim Report - Assessment of Lower Silver - Thompson Creek Subwatershed	Report (Electronic)	CD-Rom
17. Joint Stormwater Agency Project to Study Urban Sources of Mercury and PCBs	1. Case Study Investigating Elevated Levels of PCBs in Storm Drain Sediments in San Jose, California	Report (Hard copy)	File Box
	2. Year Two Case Study Investigating Elevated Levels of PCBs in Storm Drain Sediments in San Jose, California	Report (Hard copy)	File Box
	3. Joint Stormwater Agency Project to Study Urban Sources of Mercury and PCBs	Report (Hard copy)	File Box
	4. Joint Stormwater Agency Project to Study Urban Sources of Mercury, PCBs and Organochlorine Pesticides	Report (Hard copy)	File Box
18. Lake Cunningham Improvement Project (Formerly Silver-Thompson Flood Protection)	1. Lower Silver Creek Watershed Project, 1998 Plan Update Initial Study	Report (Hard copy)	File Box
	2. Fish Relocation Operations Summary Report	Technical Memo (Hard copy)	File Box
	3. Lower Silver Creek Watershed Project, 1998 Plan Update Addendum to the Initial Study/Negative Declaration and Environmental Assessment/Finding of no Significant Impact	Report (Hard copy)	File Box
	4. Addendum to the Final Impact Report for the Lower Silver Creek Watershed Project	Report (Hard copy)	File Box
	5. Vertebrate Location Report for Reach 3 of Lower Silver Creek	Technical Memo (Hard copy)	File Box

Project Name	Product Title	Document Type and Format	Location
19. Lower Coyote Creek Flood Control Project	1. Coyote Creek Planning Study (San Francisco Bay to Montague Expressway)	Report (Hard copy)	File Box
	2. Final Environmental Impact Statement Coyote Creek Flood Control	Report (Hard copy)	File Box
	3. Coyote Creek Flood Control Project Reaches 1,2 & 3; Report of Mitigation and Monitoring Program 2001	Report (Hard copy)	File Box
	4. Lower Coyote Creek Flood Control Project Reaches 1-3: Annual Report of Mitigation and Monitoring Programs 1994-1995	Report (Hard copy)	File Box
	5. Lower Coyote Creek Flood Control Project Reaches 1-3: Report of Mitigation and Monitoring Programs 1996-1998	Report (Hard copy)	File Box
20. Relationship Between Habitat and Biology in Freshwater Ecosystems	The Relationship Between Habitat and Biology in Freshwater Ecosystems	Report (Hard copy)	File Box
21. Riparian Restoration Action Plan (RRAP)	Riparian Restoration Action Plan - Final Draft	Report (Hard copy)	File Box
22. San Francisco Bay Area Stream Survey	Bay Area Stream Fishes (BASF) Version 1.0	Database, Table	CD-Rom
23. San Jose Development Policies	1. City of San Jose General Plan	Report (Hard copy)	File Box
	2. City of San Jose General Plan Maps	Map (Electronic)	CD-Rom
	3. City of San Jose Zoning Maps	Map (Electronic)	CD-Rom
	4. Riparian Corridor Policy Study	Report (Hard copy)	File Box
24. San Jose Historic Preservation Sites	Historic Resources Inventory	Table, Map (Electronic)	CD-Rom

Project Name	Product Title	Document Type and Format	Location
25. San Jose Parks and Recreation Information	1. Coyote Creek Trail New and Future Developments	Web Page (Electronic)	CD-Rom
	2. Coyote Creek Trail Project	Map (Electronic)	CD-Rom
	3. Walk San Jose Coyote Creek Proposed Trail	Webpage, Map (Electronic)	CD-Rom
	4. Mabury Park/Penitencia Creek Park Chain Reach 6 Master Plan.	Report (Hard copy)	File Box
	5. Penitencia Creek Park Chain Reach 2 Master Plan Narrative Report.	Report (Hard copy)	File Box
26. Santa Clara Basin Watershed Management Initiative	1. Watershed Management Plan, Volume 1, Watershed Characteristics Report	Report (Hard copy)	File Box
	2. Watershed Management Plan, Volume 2, Watershed Assessment Report	Report (Electronic)	CD-Rom
27. Santa Clara County Census Information	City of San Jose Population Census Data	Web Page (Electronic)	CD-Rom
28. Santa Clara County Parks Strategic Plan	1. Countywide Trails Master Plan Update	Report (Electronic)	CD-Rom
	2. Countywide Trails Plan	Map (Electronic)	CD-Rom
	3. Strategic Plan Santa Clara County Parks and Recreation System	Report (Electronic)	CD-Rom
29. Santa Clara Valley Audubon Society Creek Mapping Project	Distribution of invasive plant species for Coyote, San Francisquito and Stevens Creek Watersheds	GIS Coverage	CD-Rom
30. SCVURPPP Multi-Year Receiving Waters Monitoring Plan	SCVURPPP FY 02-03 Watershed Monitoring and Assessment Summary Report	Report (Hard copy)	File Box
31. SCVURPPP Trash Work Plan	Trash Problem Area Survey	Table (Hard copy)	File Box
32. SCVWD Hydraulic Analyses using HEC RAS and HEC2	HEC RAS and HEC2 Data	Data Files (Electronic)	SCVWD
33. SCVWD Wildlife Surveys	Memoranda Summarizing SCVWD Wildlife Survey Results	Technical Memo (Hard copy)	File Box

Project Name	**Product Title**	**Document Type and Format**	**Location**
34. Sediment Removal Projects	1. Draft Self Monitoring Report for the San Francisco Bay Region Multi-Year Stream Maintenance Program 2002 Sediment Removal Projects	Report (Hard copy)	File Box
	2. 2000 Sediment Removal Project - Analytical Data for Sediment Samples	Table (Hard copy)	File Box
	3. 2002 Sediment Removal Project - Analytical Data for Sediment Samples	Table (Electronic)	CD-Rom
	4. Self-Monitoring Report for the 2000 Sediment Removal Project	Report (Hard copy)	File Box
	5. Stream Maintenance Program 2001 Sediment Removal Sites - "smp2001sedremoval"	GIS Coverage	CD-Rom
35. Stormwater Environmental Indicators Demonstration Project (SEIDP)	1. Stormwater Environmental Indicators Demonstration Project Final Report	Report (Hard copy)	File Box
	2. SEIDP Database	Database (Electronic)	CD-Rom
36. Streamflow Augmentation and Wetland Creation using Recycled Water	1. The Impact of Recycled Water on Water Quality in Coyote Creek San Jose, California in 2001	Report (Hard copy)	File Box
	2. Year 3 Monitoring Parameter List	Table (Electronic)	CD-Rom
	3. Benthic Macroinvertebrate Survey on Coyote Creek	Technical Memo (Hard copy)	File Box
	4. Bentic Macroinvertebrate Population Analysis for 1998/1999 on Coyote Creek, Santa Clara County, Ca	Technical Memo (Hard copy)	File Box
	5. 2000 Benthic Macroinvertebrate Population Analysis: Coyote Creek	Report (Hard copy)	File Box
	6. Draft Coyote Flow Augmentation Pilot Project Phase 1 Fisheries Monitoring	Report (Hard copy)	File Box
	7. Results of the Habitat Survey on Lower Coyote Creek	Technical Memo (Hard copy)	File Box

Project Name	Product Title	Document Type and Format	Location
	8. Results of Year 2000 Fisheries Habitat Monitoring, Coyote Creek, San Jose, CA	Technical Memo (Hard copy)	File Box
	9. Final Water Quality Monitoring Report for July - October 1999	Report (Hard copy)	File Box
	10. Final Water Quality Monitoring Report for May - November 2000	Report (Hard copy)	File Box
37. Summer dams fisheries study	1. Summer dams fisheries study summary of field work, November 1990-March 1992	Report (Hard copy)	File Box
	2. Summer dams fisheries study summary of field work, November 1992 - October 1993	Report (Hard copy)	File Box
38. Temperature Water Quality Data from SCVWD	Temperature Water Quality Data from SCVWD	Database (Electronic)	SCVWD (Jae Abel)
39. Thompson Creek Sediment Yield	Draft Interim Report - Assessment of Lower Silver - Thompson Creek Subwatershed	Report (Electronic)	CD-Rom
40. Upper Penitencia Creek Flood Control Project	1. Upper Penitencia Creek Reconnaissance Level Sediment Assessment:Existing Conditions Summary	Report (Hard copy)	File Box
	2. Upper Penitencia Creek Reconnaissance Level Sediment Assessment:Project Conditions Evaluation	Report (Hard copy)	File Box
	3. Upper Penitencia Creek Flood Control Study, Santa Clara County, California, Reconnaissance Report	Report (Hard copy)	File Box
	4. Agreement Between the Department of the Army and the Santa Clara Valley Water District for the Feasibility Phase Study of the Upper Penitencia Creek	Report (Hard copy)	File Box
	5. Upper Penitencia Creek Reconnaissance Level Sediment Assessment: Bridge Scour Analysis	Report (Hard copy)	File Box

Project Name	Product Title	Document Type and Format	Location
	6. Upper Penitencia Creek Watershed Final Watershed Plan and Environmental Impact Statement/Report	Report (Hard copy)	File Box
Vegetation Management Projects	SCVWD Draft Self-Monitoring Report for the In-Stream Aquatic Herbicide Control Program for Northern Santa Clara County	Report (Hard copy)	File Box
Vegetation Mapping of Upper Penitencia Creek	Upper Penitencia Creek Riparian Vegetation Map	GIS Coverage	USACE (Bill DeJager)